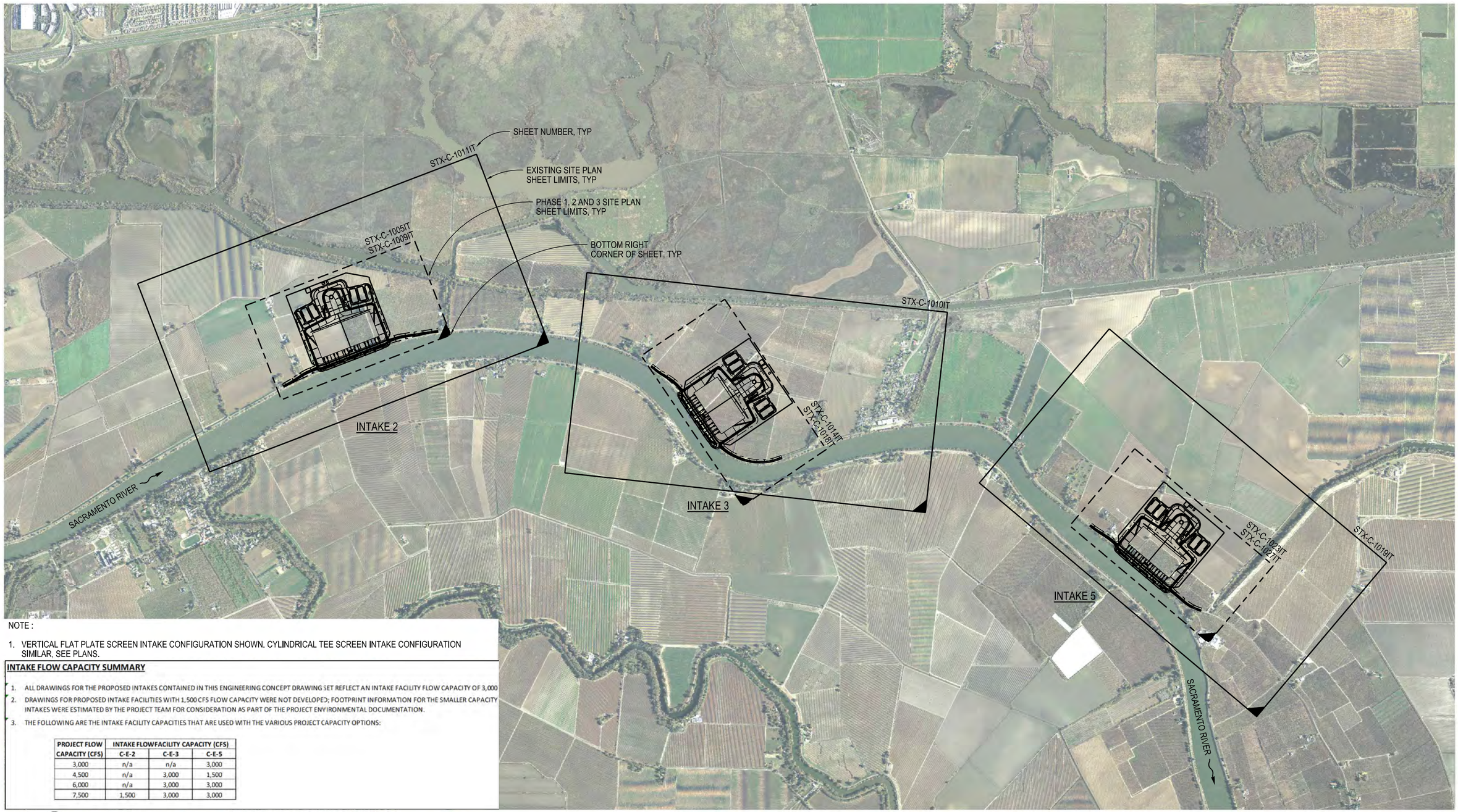


NOTE :

1. VERTICAL FLAT PLATE SCREEN INTAKE CONFIGURATION SHOWN. CYLINDRICAL TEE SCREEN INTAKE CONFIGURATION SIMILAR, SEE PLANS.

INTAKE FLOW CAPACITY SUMMARY

1. ALL DRAWINGS FOR THE PROPOSED INTAKES CONTAINED IN THIS ENGINEERING CONCEPT DRAWING SET REFLECT AN INTAKE FACILITY FLOW CAPACITY OF 3,000
2. DRAWINGS FOR PROPOSED INTAKE FACILITIES WITH 1,500 CFS FLOW CAPACITY WERE NOT DEVELOPED; FOOTPRINT INFORMATION FOR THE SMALLER CAPACITY INTAKES WERE ESTIMATED BY THE PROJECT TEAM FOR CONSIDERATION AS PART OF THE PROJECT ENVIRONMENTAL DOCUMENTATION.
3. THE FOLLOWING ARE THE INTAKE FACILITY CAPACITIES THAT ARE USED WITH THE VARIOUS PROJECT CAPACITY OPTIONS:

PROJECT FLOW CAPACITY (CFS)	INTAKE FLOW FACILITY CAPACITY (CFS)		
	C-E-2	C-E-3	C-E-5
3,000	n/a	n/a	3,000
4,500	n/a	3,000	1,500
6,000	n/a	3,000	3,000
7,500	1,500	3,000	3,000

N

0 1200 2400
SCALE IN FEET

PLAN
1"=1200'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: M DRAPER
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DCA
DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES PROJECT OVERVIEW AND KEY MAP

PROJECT NO. W8X97000
SHEET NO. STX-C-0005IT
REV X
SEQUENCE NO.

STX-C-0005IT_W8X97000.dgn

PLOT DATE:2021\11\23 PLOT TIME:1:08:45 PM

0 150 300
SCALE IN FEET

NOTE :

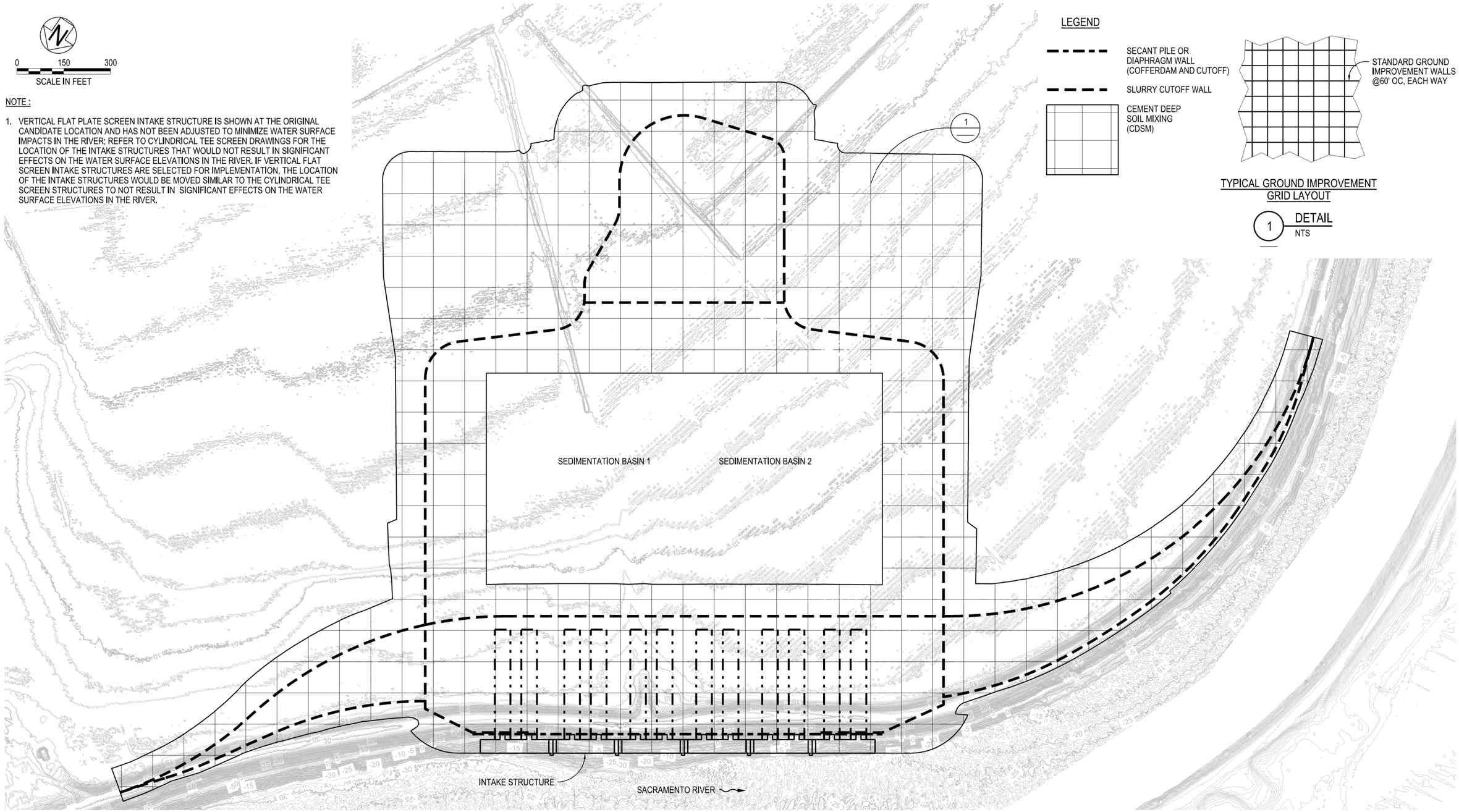
1. VERTICAL FLAT PLATE SCREEN INTAKE STRUCTURE IS SHOWN AT THE ORIGINAL CANDIDATE LOCATION AND HAS NOT BEEN ADJUSTED TO MINIMIZE WATER SURFACE IMPACTS IN THE RIVER; REFER TO CYLINDRICAL TEE SCREEN DRAWINGS FOR THE LOCATION OF THE INTAKE STRUCTURES THAT WOULD NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER. IF VERTICAL FLAT SCREEN INTAKE STRUCTURES ARE SELECTED FOR IMPLEMENTATION, THE LOCATION OF THE INTAKE STRUCTURES WOULD BE MOVED SIMILAR TO THE CYLINDRICAL TEE SCREEN STRUCTURES TO NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER.

LEGEND

- SECANT PILE OR DIAPHRAGM WALL (COFFERDAM AND CUTOFF)
- SLURRY CUTOFF WALL
- CEMENT DEEP SOIL MIXING (CDSM)

TYPICAL GROUND IMPROVEMENT GRID LAYOUT

1 DETAIL
NTS



PLAN
1"=150'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: D CORBETT
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DCA
DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

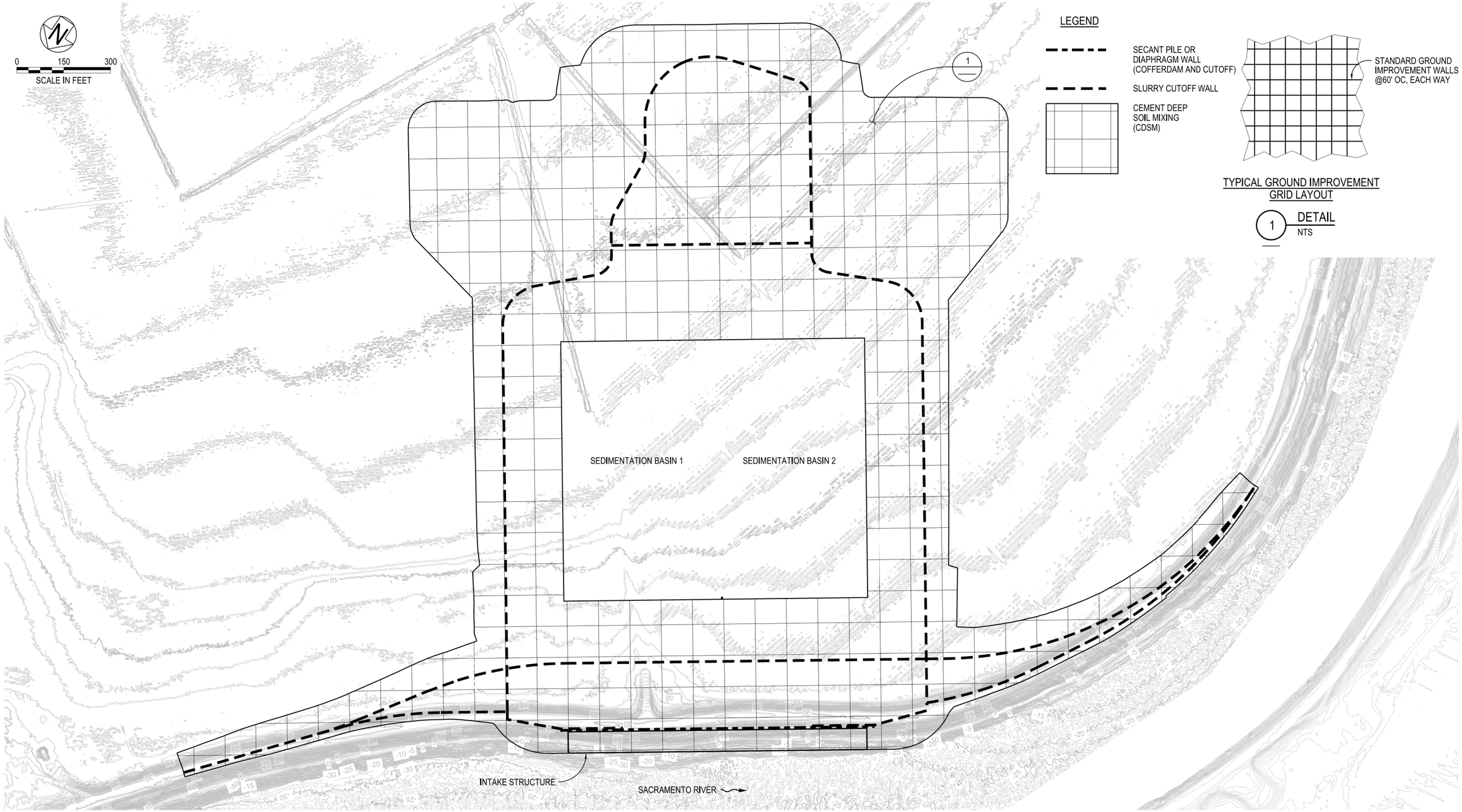
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

TYPICAL VERTICAL SCREEN OPTION GROUND IMPROVEMENT PLAN

PROJECT NO. W8X97000
SHEET NO. STX-C-0006IT
REV
SEQUENCE NO. X

STX-C-0006IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:51:31 AM



PLAN
1"=150'

INTAKES

VERIFY SCALE
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0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: D CORBETT
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

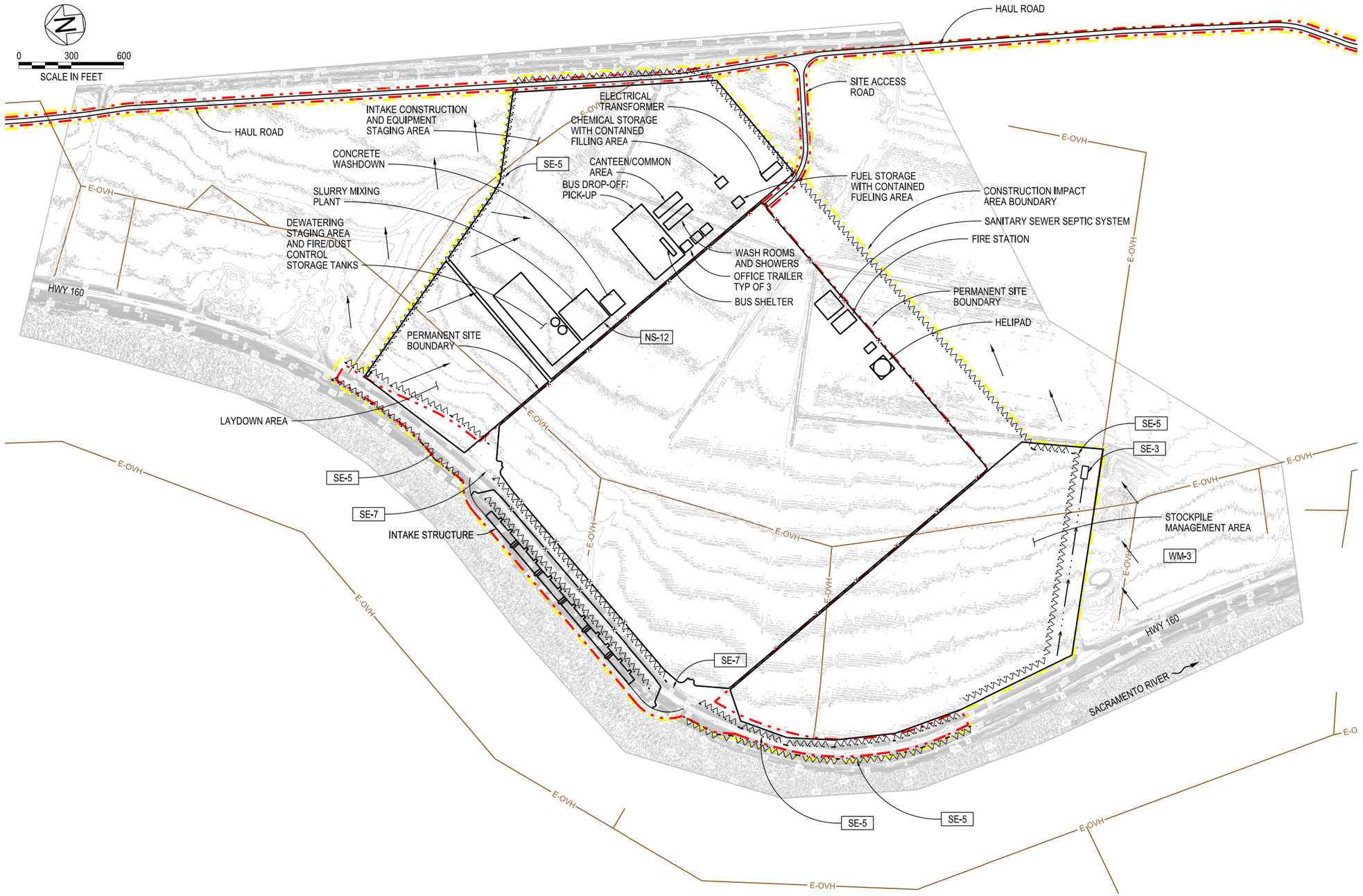
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

TYPICAL TEE SCREEN OPTION
GROUND IMPROVEMENT PLAN

PROJECT NO. W8X97000
SHEET NO. STX-C-0007IT
REV
SEQUENCE NO. X

STX-C-0007IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:51:29 AM



PLAN
1"=300'

TYPICAL DISCHARGE POINT BMPS:

SE-3 SEDIMENT TRAP (AS NEEDED)

SE-4 CHECK DAMS

TYPICAL PERIMETER CONTROLS INCLUDE:

EC-9 EARTH DIKES AND DRAINAGE SWALES TO PREVENT STORM WATER FROM ENTERING CONSTRUCTION DELINEATION

SE-1 SILT FENCE
OR
SE-5 FIBER ROLLS

SE-4 CHECK DAMS

AS NEEDED:
SE-3 SEDIMENT TRAP

TYPICAL ONSITE BMPS MAY INCLUDE:

TYPICAL ONSITE BMPS MAY INCLUDE:

NS-2 DEWATERING OPERATIONS

NS-9 VEHICLE AND EQUIPMENT FUELING

NS-12 CONCRETE CURING

NS-13 CONCRETE FINISHING

NS-16 TEMPORARY BATCH PLANTS

WE-1 WIND EROSION CONTROL

WM-1 MATERIAL DELIVERY AND STORAGE

WM-3 STOCKPILE

WM-9 SANITARY SEPTIC WASTE MANAGEMENT

WM-5 SOLID WASTE MANAGEMENT

WM-8 CONCRETE WASTE MANAGEMENT

TYPICAL SITE ENTRANCE/EXIT AND ACCESS BMPS:

TC-1 STABILIZED CONSTRUCTION ENTRANCE EXIT

AS NEEDED:
TC-2 STABILIZED CONSTRUCTION ROADWAY

SE-7 STREET SWEEPING AND VACUUMING

NOTE:

1. VERTICAL FLAT PLATE SCREEN INTAKE STRUCTURE IS SHOWN AT THE ORIGINAL CANDIDATE LOCATION AND HAS NOT BEEN ADJUSTED TO MINIMIZE WATER SURFACE IMPACTS IN THE RIVER; REFER TO CYLINDRICAL TEE SCREEN DRAWINGS FOR THE LOCATION OF THE INTAKE STRUCTURES THAT WOULD NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER. IF VERTICAL FLAT SCREEN INTAKE STRUCTURES ARE SELECTED FOR IMPLEMENTATION, THE LOCATION OF THE INTAKE STRUCTURES WOULD BE MOVED SIMILAR TO THE CYLINDRICAL TEE SCREEN STRUCTURES TO NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER.

LEGEND

- SILT FENCE OR FIBER ROLLS
- DRAINAGE DITCH FLOW LINE
- ANTICIPATED SURFACE WATER FLOW ARROWS

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: M DRAPER
DRAWN: D CAVE
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

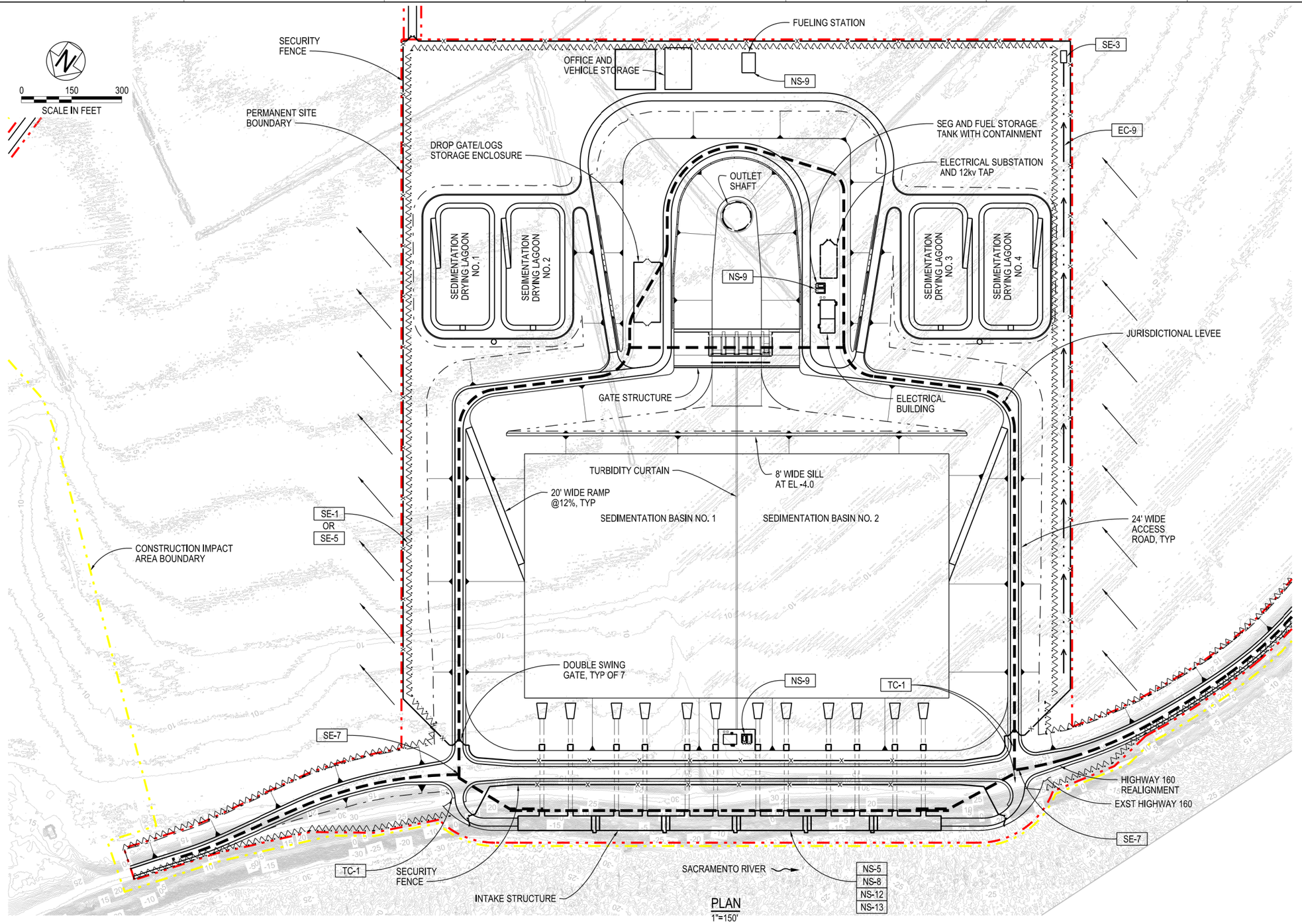
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

TYPICAL VERTICAL SCREEN OPTION
INTAKE FACILITY CONSTRUCTION SWPPP

PROJECT NO. W8X97000
SHEET NO. STX-C-0008IT
REV | SEQUENCE NO. X

STX-C-0008IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:51:45 AM



PLAN
1"=150'

TYPICAL DISCHARGE POINT BMPS:

SE-3 SEDIMENT TRAP (AS NEEDED)

SE-4 CHECK DAMS

TYPICAL PERIMETER CONTROLS INCLUDE:

EC-9 EARTH DIKES AND DRAINAGE SWALES TO PREVENT STORM WATER FROM ENTERING CONSTRUCTION DELINEATION

SE-1 SILT FENCE
OR
SE-5 FIBER ROLLS

SE-4 CHECK DAMS

EC-9 EARTH DIKES AND DRAINAGE SWALES

NS-5 CLEAR WATER DIVERSION

AS NEEDED:
SE-3 SEDIMENT TRAP

TYPICAL ONSITE BMPS MAY INCLUDE:

TYPICAL ONSITE BMPS MAY INCLUDE:

NS-2 DEWATERING OPERATIONS

NS-9 VEHICLE AND EQUIPMENT FUELING

NS-12 CONCRETE CURING

NS-13 CONCRETE FINISHING

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WM-8 CONCRETE WASTE MANAGEMENT

TYPICAL SITE ENTRANCE/EXIT AND ACCESS BMPS:

TC-1 STABILIZED CONSTRUCTION ENTRANCE EXIT

AS NEEDED:
TC-2 STABILIZED CONSTRUCTION ROADWAY

SE-7 STREET SWEEPING AND VACUUMING

NS-8 VEHICLE AND CLEANING EQUIPMENT

NOTES:

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (FIBER ROLLS SILT FENCE ETC)TO BE REMOVED UPON FULL SITE STABILIZATION.
2. VERTICAL FLAT PLATE SCREEN INTAKE STRUCTURE IS SHOWN AT THE ORIGINAL CANDIDATE LOCATION AND HAS NOT BEEN ADJUSTED TO MINIMIZE WATER SURFACE IMPACTS IN THE RIVER; REFER TO CYLINDRICAL TEE SCREEN DRAWINGS FOR THE LOCATION OF THE INTAKE STRUCTURES THAT WOULD NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER. IF VERTICAL FLAT SCREEN INTAKE STRUCTURES ARE SELECTED FOR IMPLEMENTATION, THE LOCATION OF THE INTAKE STRUCTURES WOULD BE MOVED SIMILAR TO THE CYLINDRICAL TEE SCREEN STRUCTURES TO NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER.

LEGEND

- SILT FENCE OR FIBER ROLLS
- DRAINAGE DITCH FLOW LINE
- ANTICIPATED SURFACE WATER FLOW ARROWS

INTAKES

VERIFY SCALE
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0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: M DRAPER
DRAWN: D CAVE
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

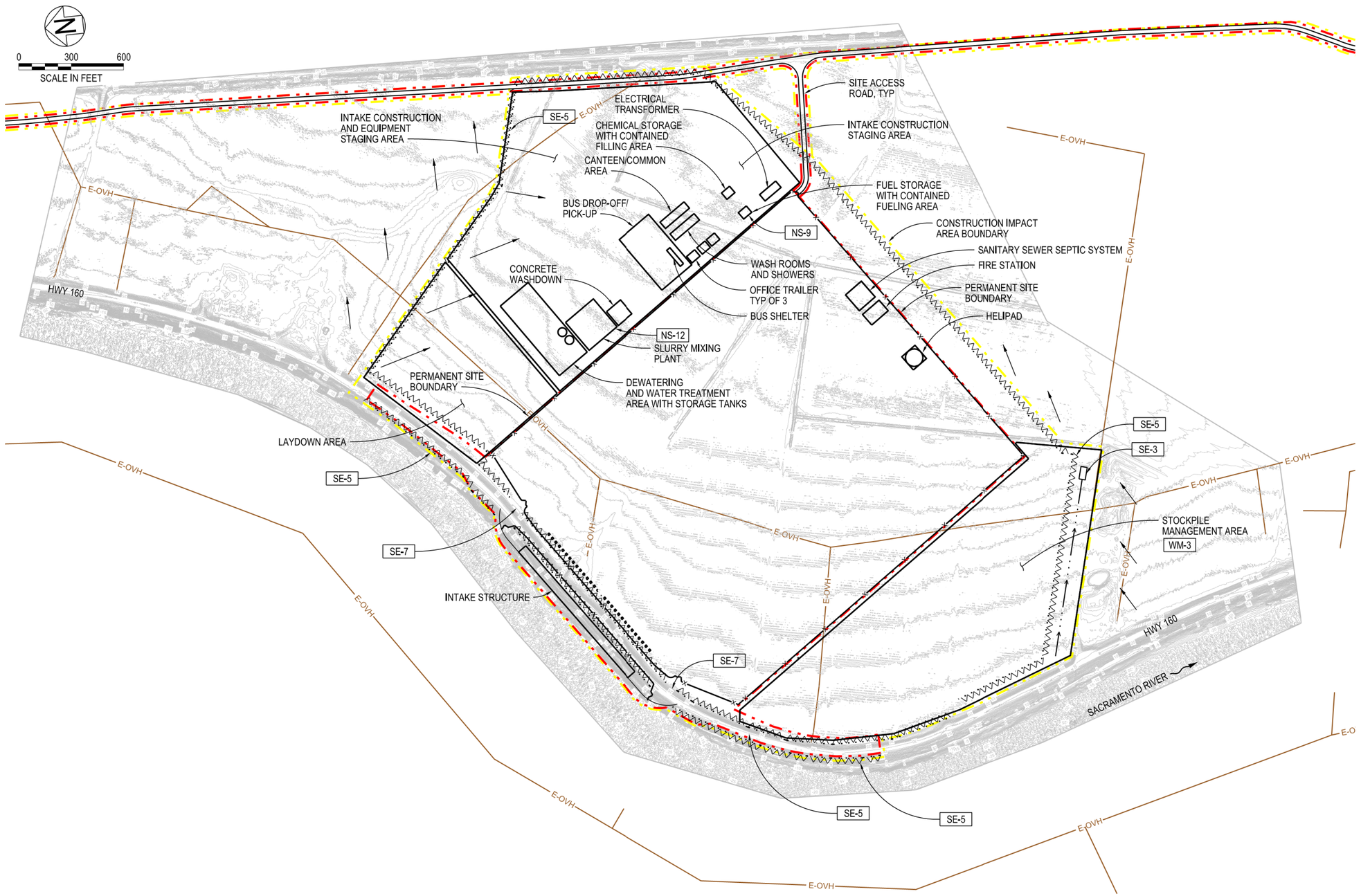
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

TYPICAL VERTICAL SCREEN OPTION
INTAKE FACILITY POST CONSTRUCTION SWPPP

PROJECT NO.
SHEET NO. STX-C-0009IT
REV
SEQUENCE NO. X

STX-C-0009IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:51:53 AM



PLAN
1"=300'

TYPICAL DISCHARGE POINT BMPS:

SE-3 SEDIMENT TRAP (AS NEEDED)

SE-4 CHECK DAMS

TYPICAL PERIMETER CONTROLS INCLUDE:

EC-9 EARTH DIKES AND DRAINAGE SWALES TO PREVENT STORM WATER FROM ENTERING CONSTRUCTION DELINEATION

SE-1 SILT FENCE
OR
SE-5 FIBER ROLLS

SE-4 CHECK DAMS

AS NEEDED:
SE-3 SEDIMENT TRAP

TYPICAL ONSITE BMPS MAY INCLUDE:

TYPICAL ONSITE BMPS MAY INCLUDE:

NS-2 DEWATERING OPERATIONS

NS-9 VEHICLE AND EQUIPMENT FUELING

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WM-8 CONCRETE WASTE MANAGEMENT

TYPICAL SITE ENTRANCE/EXIT AND ACCESS BMPS:

TC-1 STABILIZED CONSTRUCTION ENTRANCE EXIT

AS NEEDED:
TC-2 STABILIZED CONSTRUCTION ROADWAY

SE-7 STREET SWEEPING AND VACUUMING

LEGEND

- SILT FENCE OR FIBER ROLLS
- DRAINAGE DITCH FLOW LINE
- ANTICIPATED SURFACE WATER FLOW ARROWS

INTAKES

VERIFY SCALE
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0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: M DRAPER
DRAWN: D CAVE
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

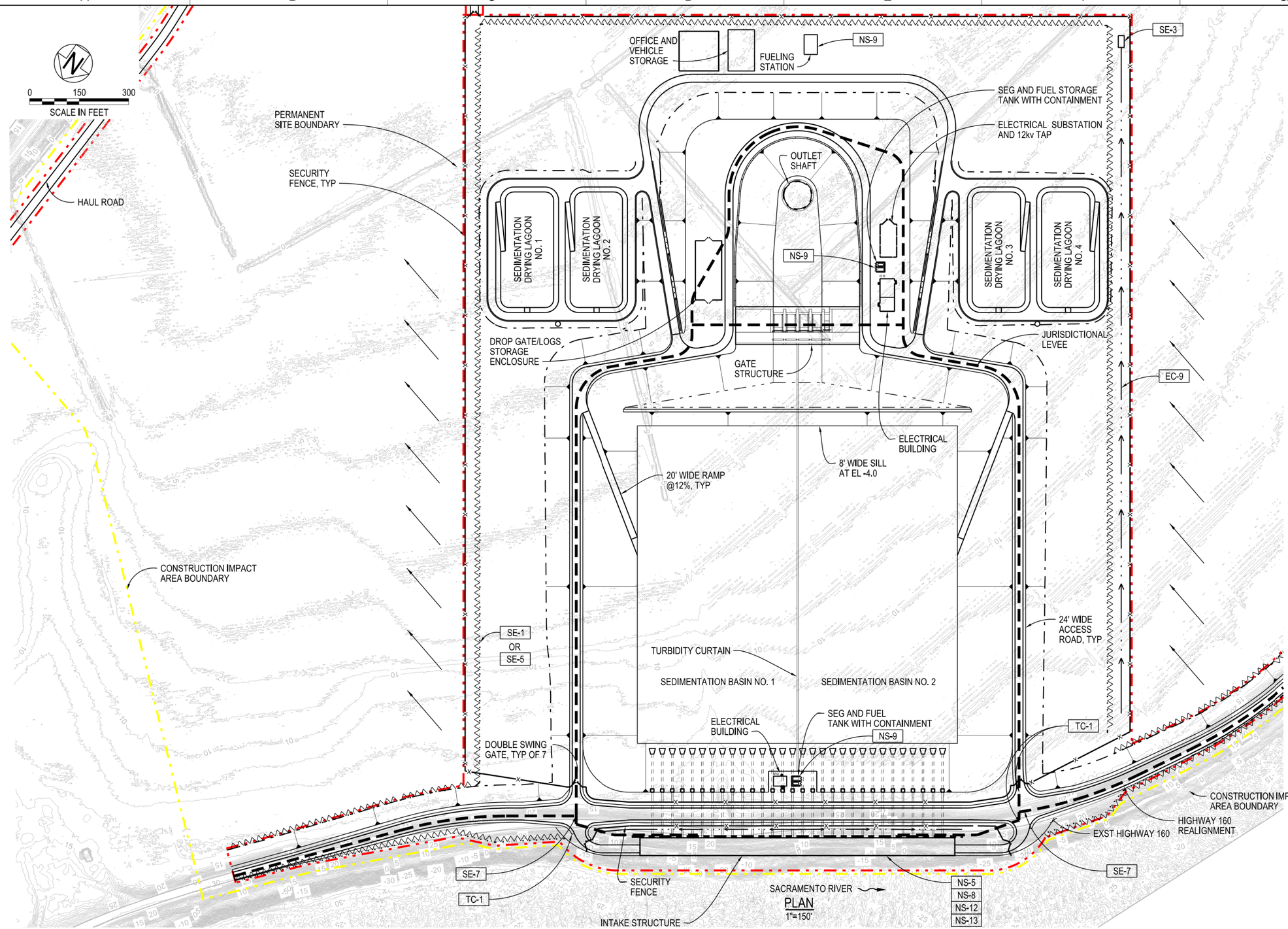
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

TYPICAL TEE SCREEN OPTION
INTAKE FACILITY CONSTRUCTION SWPPP

PROJECT NO. W8X97000
SHEET NO. STX-C-0010IT
REV | SEQUENCE NO. X

STX-C-0010IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:51:45 AM



PLAN
1"=150'

TYPICAL DISCHARGE POINT BMPS:

SE-3 SEDIMENT TRAP (AS NEEDED)

SE-4 CHECK DAMS

TYPICAL PERIMETER CONTROLS INCLUDE:

EC-9 EARTH DIKES AND DRAINAGE SWALES TO PREVENT STORM WATER FROM ENTERING CONSTRUCTION DELINEATION

SE-1 SILT FENCE
OR
SE-5 FIBER ROLLS

SE-4 CHECK DAMS

EC-9 EARTH DIKES AND DRAINAGE SWALES

NS-5 CLEAR WATER DIVERSION

AS NEEDED:
SE-3 SEDIMENT TRAP

TYPICAL ONSITE BMPS MAY INCLUDE:

TYPICAL ONSITE BMPS MAY INCLUDE:

NS-2 DEWATERING OPERATIONS

NS-9 VEHICLE AND EQUIPMENT FUELING

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AS NEEDED:
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SE-7 STREET SWEEPING AND VACUUMING

NS-8 VEHICLE AND CLEANING EQUIPMENT

NOTES:

1. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES (FIBER ROLLS SILT FENCE ETC)TO BE REMOVED UPON FULL SITE STABILIZATION.

LEGEND

- SILT FENCE OR FIBER ROLLS
- DRAINAGE DITCH FLOW LINE
- ANTICIPATED SURFACE WATER FLOW ARROWS

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: M DRAPER
APPROVAL RECOMMENDED:
DRAWN: D CAVE
APPROVAL BY: P RYAN
CHECKED: J REYNOLDS

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

TYPICAL TEE SCREEN OPTION
INTAKE FACILITY POST CONSTRUCTION SWPPP

PROJECT NO. W8X97000
SHEET NO. STX-C-0011IT
REV
SEQUENCE NO. X

STX-C-0011IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:51:52 AM

0 300 600
SCALE IN FEET

FIELD CROP
FIELD CROP
FIELD CROP
FIELD CROP
FIELD CROP
FIELD CROP
FIELD CROP
FIELD CROP
FIELD CROP
ORCHARD
ORCHARD
ORCHARD
ORCHARD
ORCHARD
ORCHARD
STONE LAKES NATIONAL WILDLIFE REFUGE
ABANDONED RAILROAD
NORTH STONE LAKE
RAILROAD BANK LEVEE
RIVER BANK LEVEE
SCRIBNER RD
HWY 160
HWY 160
ROUTE E9
ROUTE E9
OVERHEAD POWER
INTAKE STRUCTURE
SACRAMENTO RIVER
PERMANENT SITE BOUNDARY
CONSTRUCTION IMPACT AREA BOUNDARY
E-OVH
W
H1
H2
H3
H3-1
H4
H5
H6
H7
H8
H9
H10
H11
H12
H13
H14
H14-1
H15
H16
H17
H18
H19
B1
B2
B3
B4
B5
B6
B7
B8
C2
DR1
DR2
DR3
DR4
DR9
DW1
DW2
DW3
DW4
DW5
DW6
DW7
FT
W1
W2
W3
680'
700'
687'
670'

NOTES:

1. CROPPING PATTERNS NEED TO BE VERIFIED, SOME DESIGNATIONS DON'T MATCH IMAGERY.
2. ONE FUEL TANK SHOWN, THE PRESENCE OF OTHERS IS UNKNOWN.
3. INTAKE C-E-2 DRAWINGS DEPICT A 3,000 CFS INTAKE FACILITY. CONCEPTUAL ENGINEERING DRAWINGS FOR A 1,500 CFS FACILITY HAVE NOT BEEN DEVELOPED.
4. VERTICAL FLAT PLATE SCREEN INTAKE STRUCTURE IS SHOWN AT THE ORIGINAL CANDIDATE LOCATION AND HAS NOT BEEN ADJUSTED TO MINIMIZE WATER SURFACE IMPACTS IN THE RIVER; REFER TO CYLINDRICAL TEE SCREEN DRAWINGS FOR THE LOCATION OF THE INTAKE STRUCTURES THAT WOULD NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER. IF VERTICAL FLAT SCREEN INTAKE STRUCTURES ARE SELECTED FOR IMPLEMENTATION, THE LOCATION OF THE INTAKE STRUCTURES WOULD BE MOVED SIMILAR TO THE CYLINDRICAL TEE SCREEN STRUCTURES TO NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER.

LEGEND

B	BARN
C	IRRIGATION DITCH
D	DITCH
DR	DIRT ROAD
DW	DRIVEWAY
DT	FUEL TANK
H	HOUSE
IP	IRRIGATION PUMP
W	WELL
E-OVH	ELECTRICAL OVERHEAD
W	IRRIGATION DITCH

PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

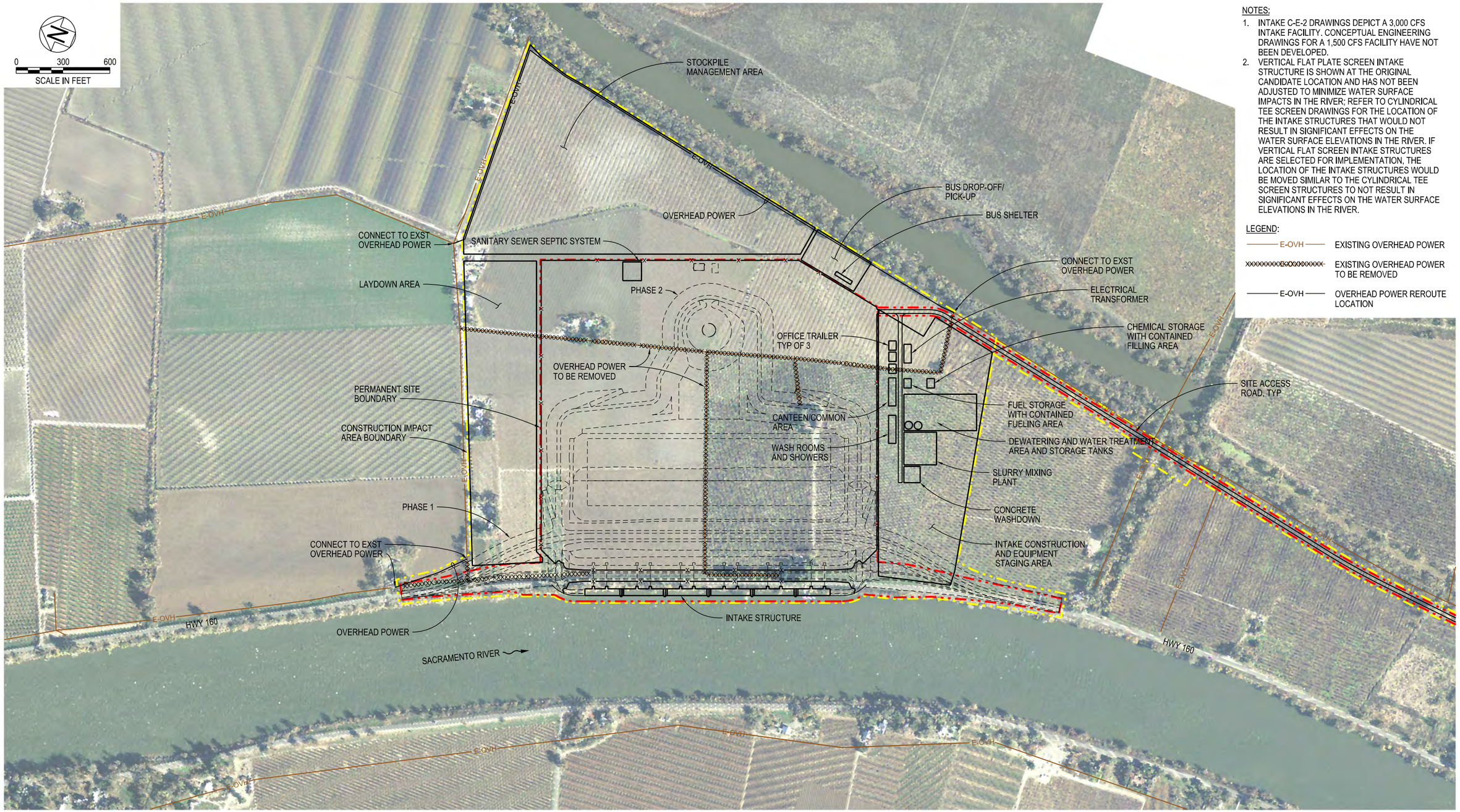
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 2
EXISTING PLAN

PROJECT NO. W8X97000
SHEET NO. STX-C-1001IT
REV
SEQUENCE NO. X

STX-C-1001IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:7:13:04 PM



NOTES:

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LEGEND:

- E-OVH — EXISTING OVERHEAD POWER
- EXISTING OVERHEAD POWER TO BE REMOVED
- E-OVH — OVERHEAD POWER REROUTE LOCATION

PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
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APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

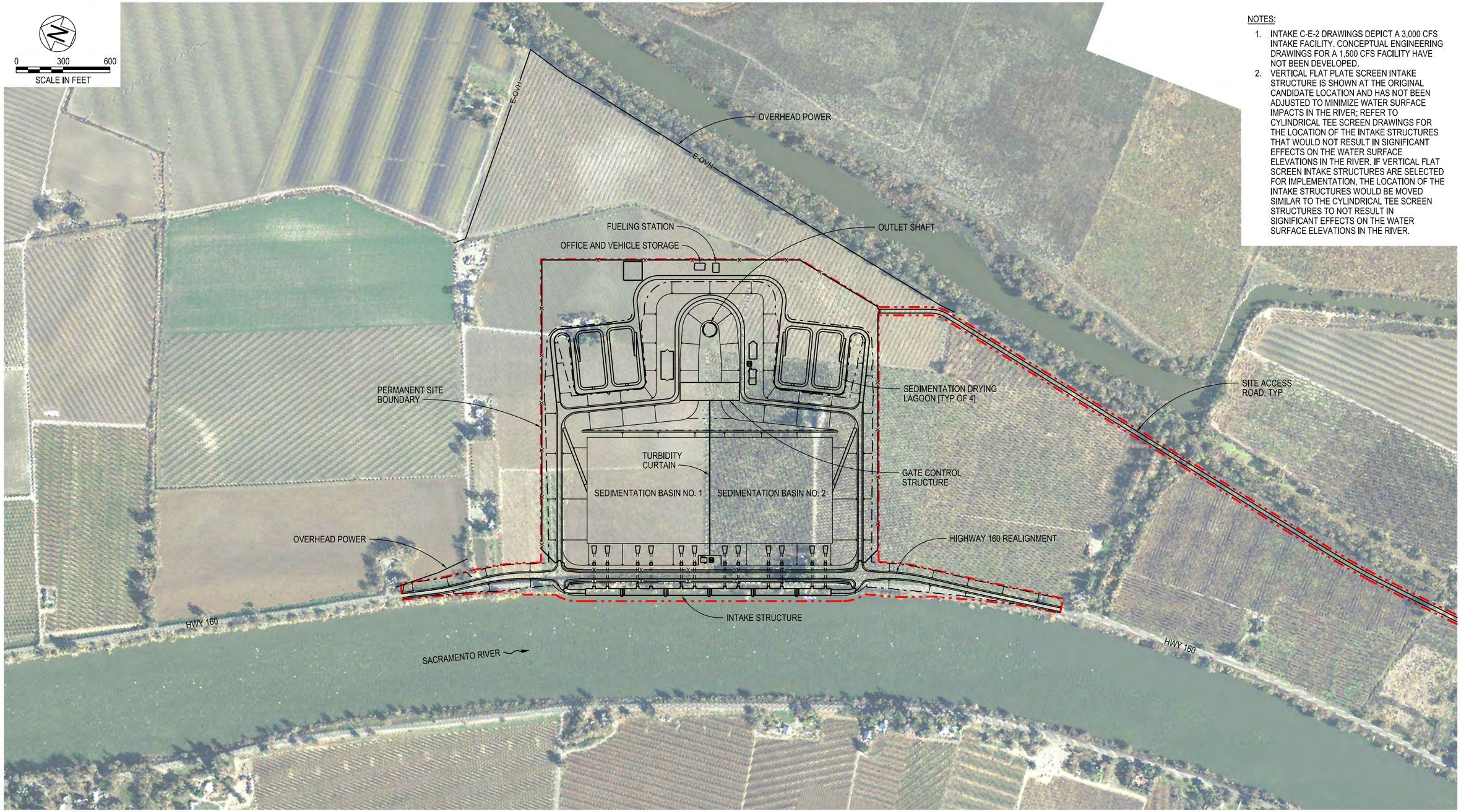
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 2 - VERTICAL SCREEN OPTION CONSTRUCTION PHASE OVERVIEW

PROJECT NO. W8X97000
SHEET NO. STX-C-1002IT
REV
SEQUENCE NO. X

STX-C-1002IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:7:22:08 PM



NOTES:

1. INTAKE C-E-2 DRAWINGS DEPICT A 3,000 CFS INTAKE FACILITY. CONCEPTUAL ENGINEERING DRAWINGS FOR A 1,500 CFS FACILITY HAVE NOT BEEN DEVELOPED.
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PLAN
1"=300'

INTAKES

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0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
APPROVAL RECOMMENDED:
DRAWN: B CHELONIS
APPROVAL BY: P RYAN
CHECKED: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 2 - VERTICAL SCREEN OPTION FINAL OVERVIEW

PROJECT NO. W8X97000
SHEET NO. STX-C-1002AIT
REV
SEQUENCE NO. X

STX-C-1002AIT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:7:20:44 PM

NOTES:

1. PHASE 1 IS WORK REQUIRED TO TEMPORARILY RELOCATE HIGHWAY 160 AND JURISDICTIONAL LEVEE.

0 150 300
SCALE IN FEET

CONSTRUCTION IMPACT AREA BOUNDARY

CONSTRUCTION IMPACT AREA BOUNDARY

3:1, TYP

BORROW PIT

3:1, TYP

HIGHWAY 160 TEMPORARY REALIGNMENT SEE DRAWING STX-C-3001IT FOR TYPICAL ROADWAY SECTIONS

SACRAMENTO RIVER

PLAN
1"=150'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
APPROVAL RECOMMENDED:
DRAWN: D CORBETT
APPROVAL BY: P RYAN
CHECKED: J REYNOLDS

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

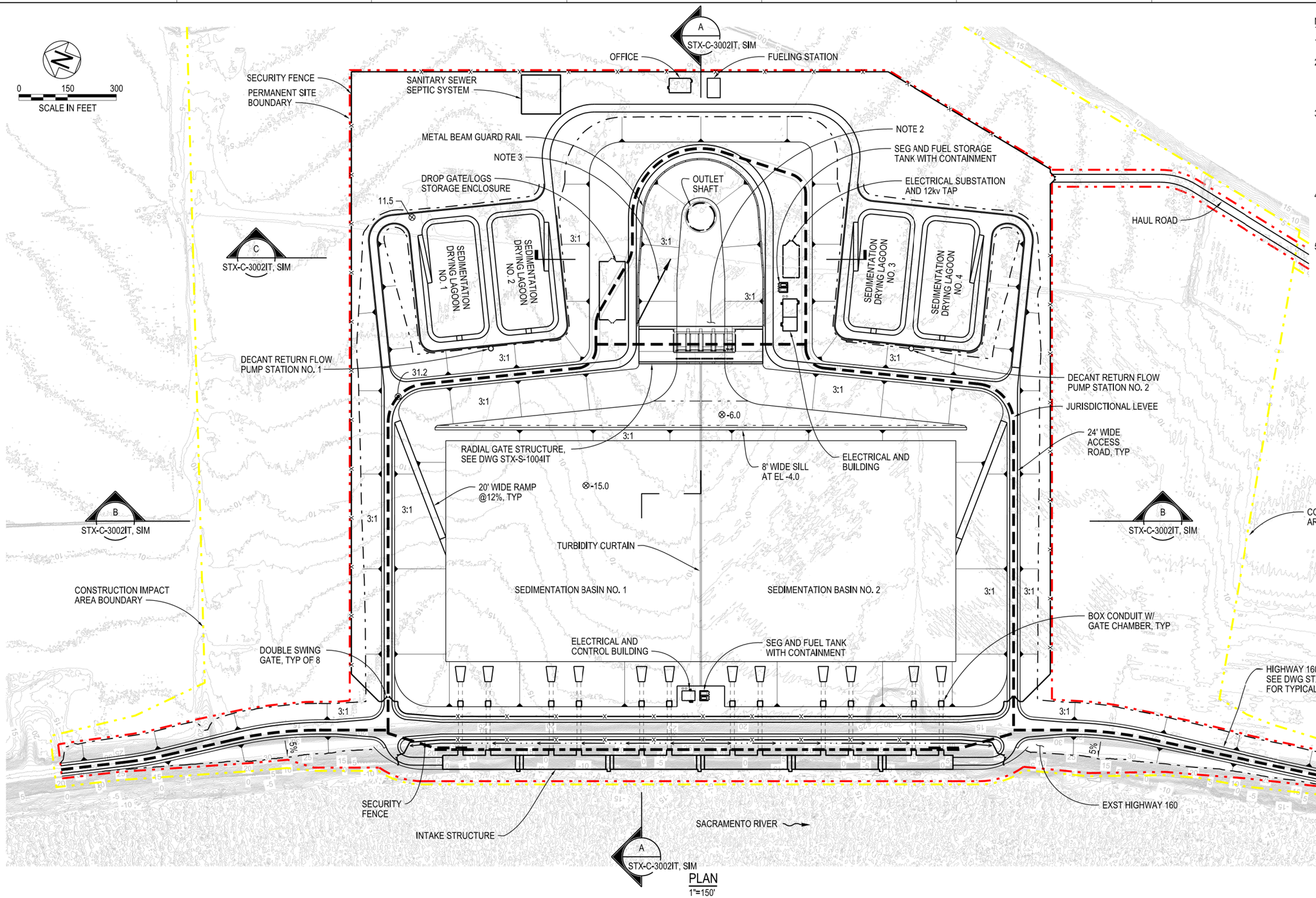
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 2 - VERTICAL SCREEN OPTION PHASE 1 SITE PLAN

PROJECT NO.
SHEET NO. STX-C-1003IT
REV | SEQUENCE NO. X

STX-C-1003IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:54:45 AM



PLAN
1"=150'

NOTES:

1. PHASE 3 IS FINISHED SITE PLAN.
2. ENERGY DISSIPATION BLOCKS AT THE RADIAL GATE STRUCTURE AND FLOW CONTROL GUIDE VEINS FOR SHAFT HYDRAULICS TO BE CONSIDERED DURING DETAILED DESIGN.
3. ACCESS RAMP TO OUTLET CHANNEL, SAFETY LADDERS, SAFETY BOOMS, AND OTHER FORMS OF SAFETY EGRESS AND WORKER PROTECTION TO BE DEVELOPED AND ADDED DURING DETAILED DESIGN. METAL BEAM GUARD RAIL WILL BE REPLACED BY TEMPORARY RAILING (TYPE K) TO ALLOW ACCESS TO THE TOP OF RAMP.
4. INTAKE C-E-2 DRAWINGS DEPICT A 3,000 CFS INTAKE FACILITY. CONCEPTUAL ENGINEERING DRAWINGS FOR A 1,500 CFS FACILITY HAVE NOT BEEN DEVELOPED.
5. VERTICAL FLAT PLATE SCREEN INTAKE STRUCTURE IS SHOWN AT THE ORIGINAL CANDIDATE LOCATION AND HAS NOT BEEN ADJUSTED TO MINIMIZE WATER SURFACE IMPACTS IN THE RIVER; REFER TO CYLINDRICAL TEE SCREEN DRAWINGS FOR THE LOCATION OF THE INTAKE STRUCTURES THAT WOULD NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER. IF VERTICAL FLAT SCREEN INTAKE STRUCTURES ARE SELECTED FOR IMPLEMENTATION, THE LOCATION OF THE INTAKE STRUCTURES WOULD BE MOVED SIMILAR TO THE CYLINDRICAL TEE SCREEN STRUCTURES TO NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER.

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: B CHELONIS
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

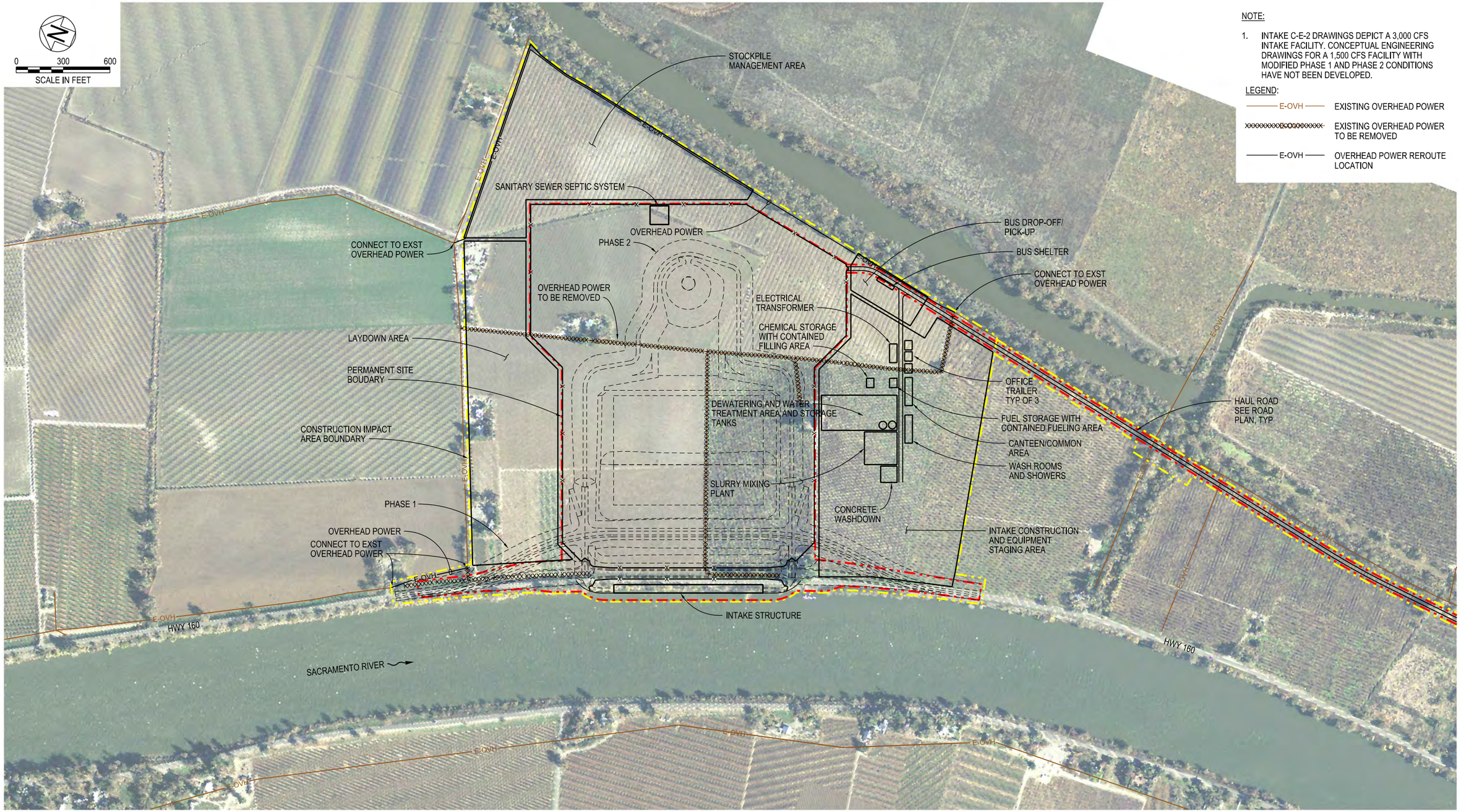
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 2 - VERTICAL SCREEN OPTION
PHASE 3 SITE PLAN

PROJECT NO. W8X97000
SHEET NO. STX-C-1005IT
REV
SEQUENCE NO. X

STX-C-1005IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:55:13 AM



PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DCA DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

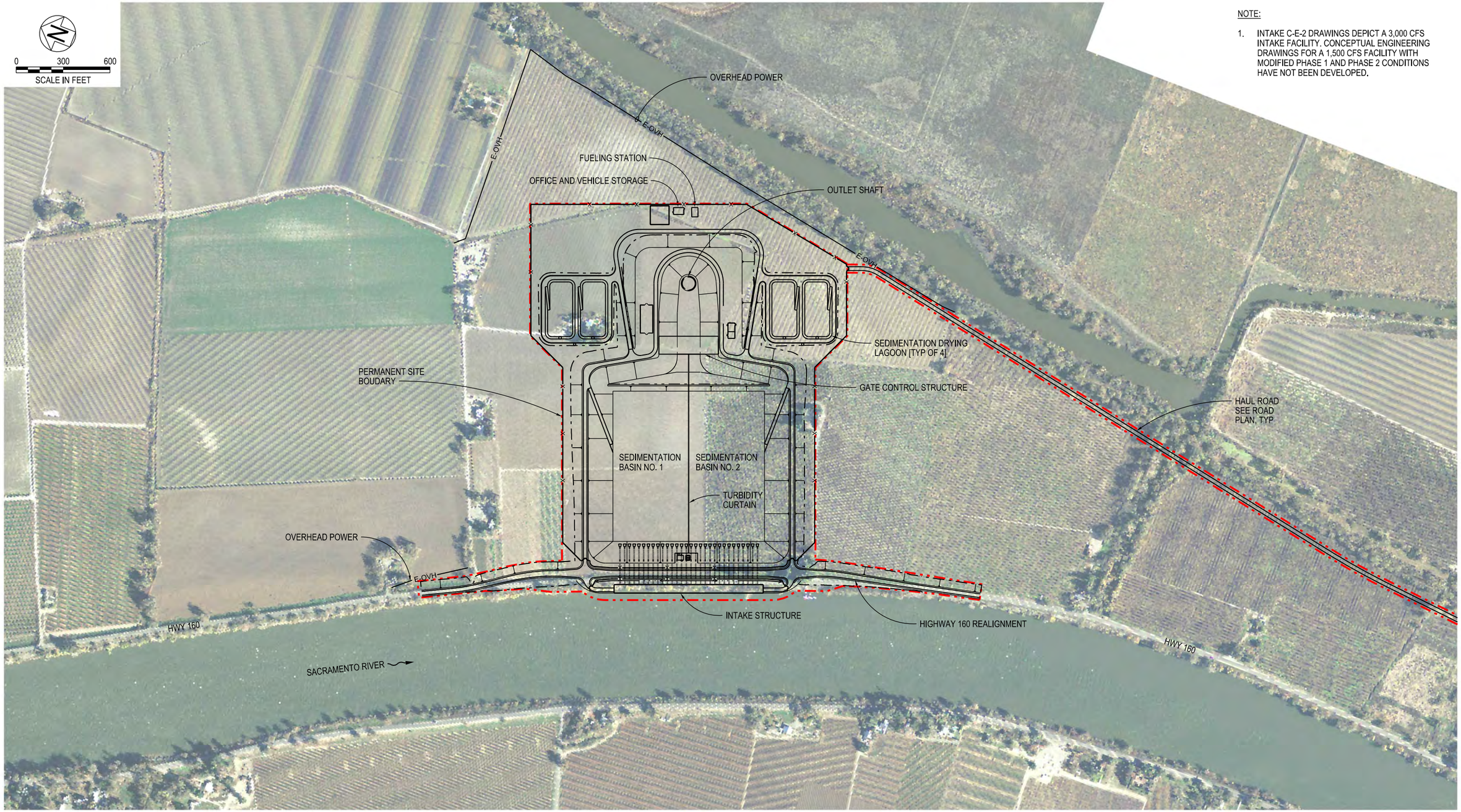
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 2 - TEE SCREEN OPTION CONSTRUCTION PHASE OVERVIEW

PROJECT NO. W8X97000
SHEET NO. STX-C-1006IT
REV
SEQUENCE NO. X

STX-C-1006IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:7:35:09 PM



NOTE:

1. INTAKE C-E-2 DRAWINGS DEPICT A 3,000 CFS INTAKE FACILITY. CONCEPTUAL ENGINEERING DRAWINGS FOR A 1,500 CFS FACILITY WITH MODIFIED PHASE 1 AND PHASE 2 CONDITIONS HAVE NOT BEEN DEVELOPED.

PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

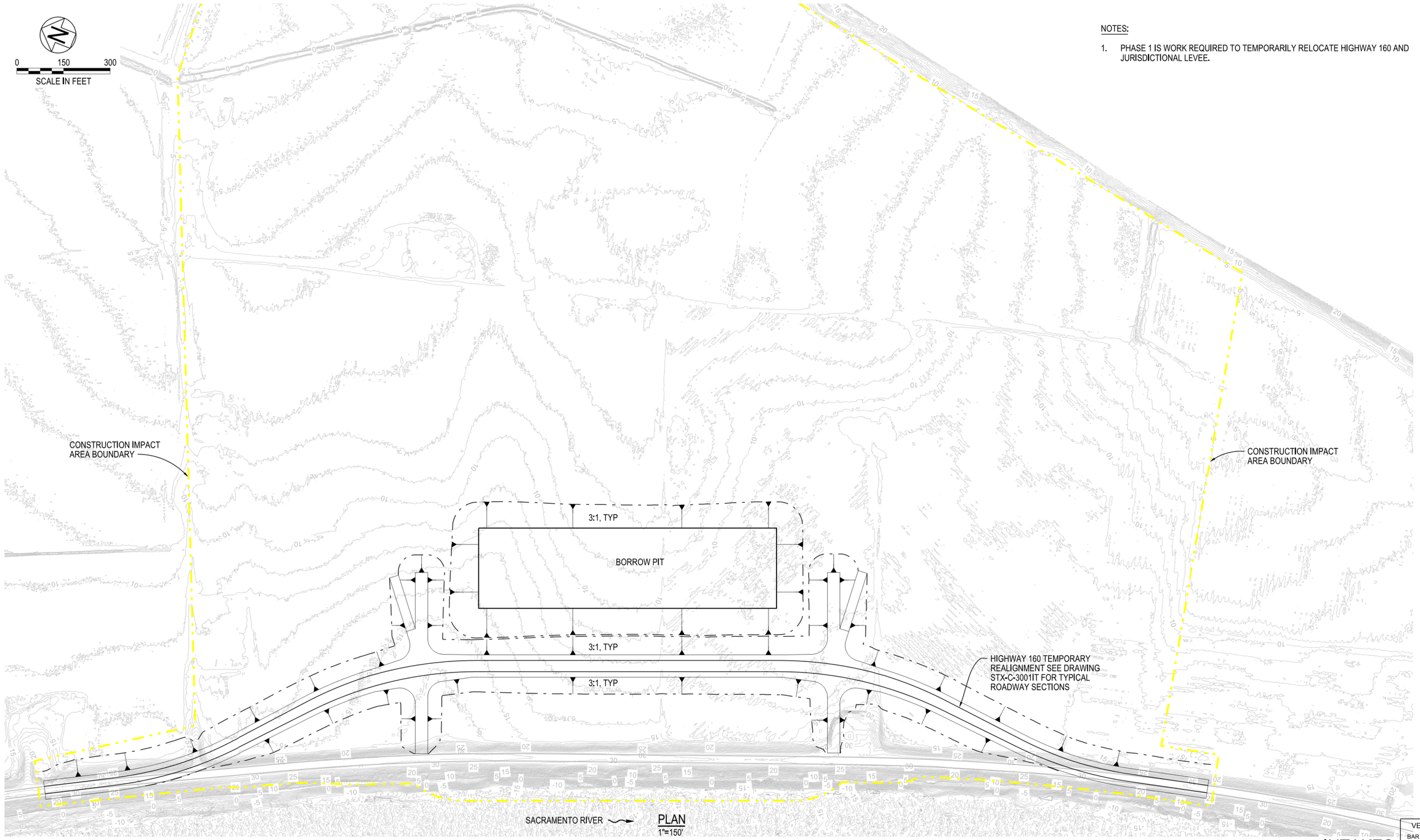
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 2 - TEE SCREEN OPTION FINAL OVERVIEW

PROJECT NO. W8X97000
SHEET NO. STX-C-1006AIT
REV
SEQUENCE NO. X

STX-C-1006AIT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:7:37:12 PM



INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: D CORBETT
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DCA
DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 2 - TEE SCREEN OPTION
PHASE 1 SITE PLAN

PROJECT NO.: W8X97000
SHEET NO.: STX-C-1007IT
REV:
SEQUENCE NO.: X

STX-C-1007IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:55:03 AM

NOTES:

1. PHASE 3 IS FINISHED SITE PLAN.
2. ENERGY DISSIPATION BLOCKS AT THE RADIAL GATE STRUCTURE AND FLOW CONTROL GUIDE VEINS FOR SHAFT HYDRAULICS TO BE CONSIDERED DURING DETAILED DESIGN.
3. ACCESS RAMP TO OUTLET CHANNEL, SAFETY LADDERS, SAFETY BOOMS, AND OTHER FORMS OF SAFETY EGRESS AND WORKER PROTECTION TO BE DEVELOPED AND ADDED DURING DETAILED DESIGN. METAL BEAM GUARD RAIL WILL BE REPLACED BY TEMPORARY RAILING (TYPE K) TO ALLOW ACCESS TO THE TOP OF RAMP.
4. INTAKE C-E-2 DRAWINGS DEPICT A 3,000 CFS INTAKE FACILITY. CONCEPTUAL ENGINEERING DRAWINGS FOR A 1,500 CFS FACILITY WITH MODIFIED PHASE 1 AND PHASE 2 CONDITIONS HAVE NOT BEEN DEVELOPED.

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: D CORBETT
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

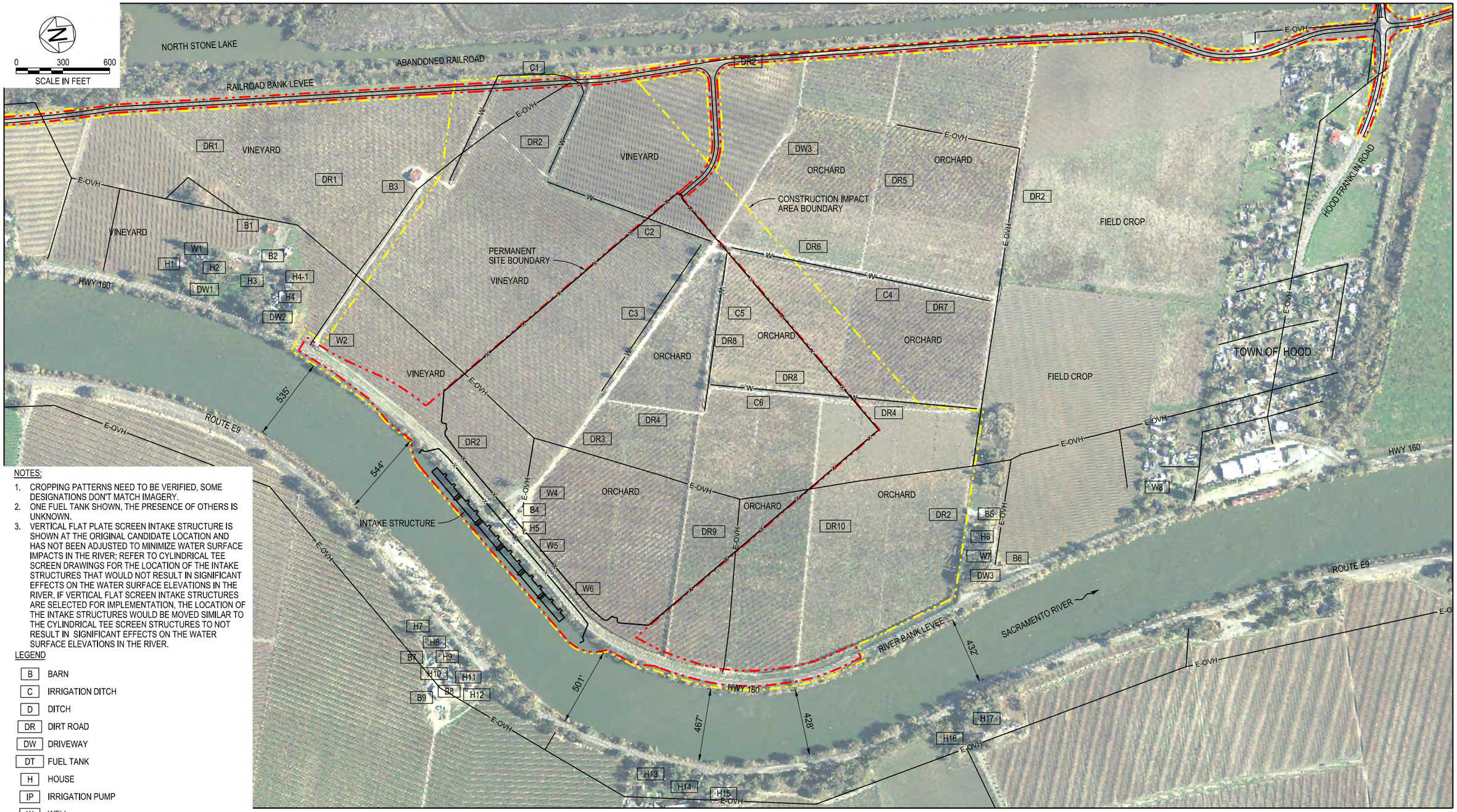
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 2 - TEE SCREEN OPTION
PHASE 3 SITE PLAN

PROJECT NO. W8X97000
SHEET NO. STX-C-1009IT
REV
SEQUENCE NO. X

STX-C-1009IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:55:26 AM



NOTES:

1. CROPPING PATTERNS NEED TO BE VERIFIED, SOME DESIGNATIONS DON'T MATCH IMAGERY.
2. ONE FUEL TANK SHOWN, THE PRESENCE OF OTHERS IS UNKNOWN.
3. VERTICAL FLAT PLATE SCREEN INTAKE STRUCTURE IS SHOWN AT THE ORIGINAL CANDIDATE LOCATION AND HAS NOT BEEN ADJUSTED TO MINIMIZE WATER SURFACE IMPACTS IN THE RIVER; REFER TO CYLINDRICAL TEE SCREEN DRAWINGS FOR THE LOCATION OF THE INTAKE STRUCTURES THAT WOULD NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER. IF VERTICAL FLAT SCREEN INTAKE STRUCTURES ARE SELECTED FOR IMPLEMENTATION, THE LOCATION OF THE INTAKE STRUCTURES WOULD BE MOVED SIMILAR TO THE CYLINDRICAL TEE SCREEN STRUCTURES TO NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER.

LEGEND

B	BARN
C	IRRIGATION DITCH
D	DITCH
DR	DIRT ROAD
DW	DRIVEWAY
DT	FUEL TANK
H	HOUSE
IP	IRRIGATION PUMP
W	WELL
E-OVH	ELECTRICAL OVERHEAD
W	IRRIGATION DITCH

PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED J REYNOLDS
DRAWN B CHELONIS
CHECKED P RYAN
APPROVAL RECOMMENDED
APPROVAL BY P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 3
EXISTING PLAN

PROJECT NO. W8X97000
SHEET NO. STX-C-1010IT
REV
SEQUENCE NO. X

STX-C-1010IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:7:48:19 PM

0 300 600
SCALE IN FEET

HAUL ROAD SEE ROAD PLAN, TYP
INTAKE CONSTRUCTION AND EQUIPMENT STAGING AREA
CONCRETE WASHDOWN
SLURRY MIXING PLANT
DEWATERING AND WATER TREATMENT AREA WITH STORAGE TANKS
CONNECT TO EXST OVERHEAD POWER
LAYDOWN AREA
INTAKE STRUCTURE
ELECTRICAL TRANSFORMER
CHEMICAL STORAGE WITH CONTAINED FILLING AREA
CANTEEN/COMMON AREA
BUS DROP-OFF/ PICK-UP
WASH ROOMS AND SHOWERS
OFFICE TRAILER, TYP OF 3
BUS SHELTER
PERMANENT SITE BOUNDARY
FUEL STORAGE WITH CONTAINED FUELING AREA
CONSTRUCTION IMPACT AREA BOUNDARY
SANITARY SEWER SEPTIC SYSTEM
FIRE STATION
FUELING STATION
HELIPAD
OVERHEAD POWER
PHASE 2
PHASE 1
OVERHEAD POWER TO BE REMOVED
CONNECT TO EXST OVERHEAD POWER
STOCKPILE MANAGEMENT AREA
SACRAMENTO RIVER
HWY 160
E-OVH

NOTES:

1. VERTICAL FLAT PLATE SCREEN INTAKE STRUCTURE IS SHOWN AT THE ORIGINAL CANDIDATE LOCATION AND HAS NOT BEEN ADJUSTED TO MINIMIZE WATER SURFACE IMPACTS IN THE RIVER; REFER TO CYLINDRICAL TEE SCREEN DRAWINGS FOR THE LOCATION OF THE INTAKE STRUCTURES THAT WOULD NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER. IF VERTICAL FLAT SCREEN INTAKE STRUCTURES ARE SELECTED FOR IMPLEMENTATION, THE LOCATION OF THE INTAKE STRUCTURES WOULD BE MOVED SIMILAR TO THE CYLINDRICAL TEE SCREEN STRUCTURES TO NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER.

LEGEND:

- E-OVH — EXISTING OVERHEAD POWER
- XXXXXXXXXXXXXXXX — EXISTING OVERHEAD POWER TO BE REMOVED
- E-OVH — OVERHEAD POWER REROUTE LOCATION

PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

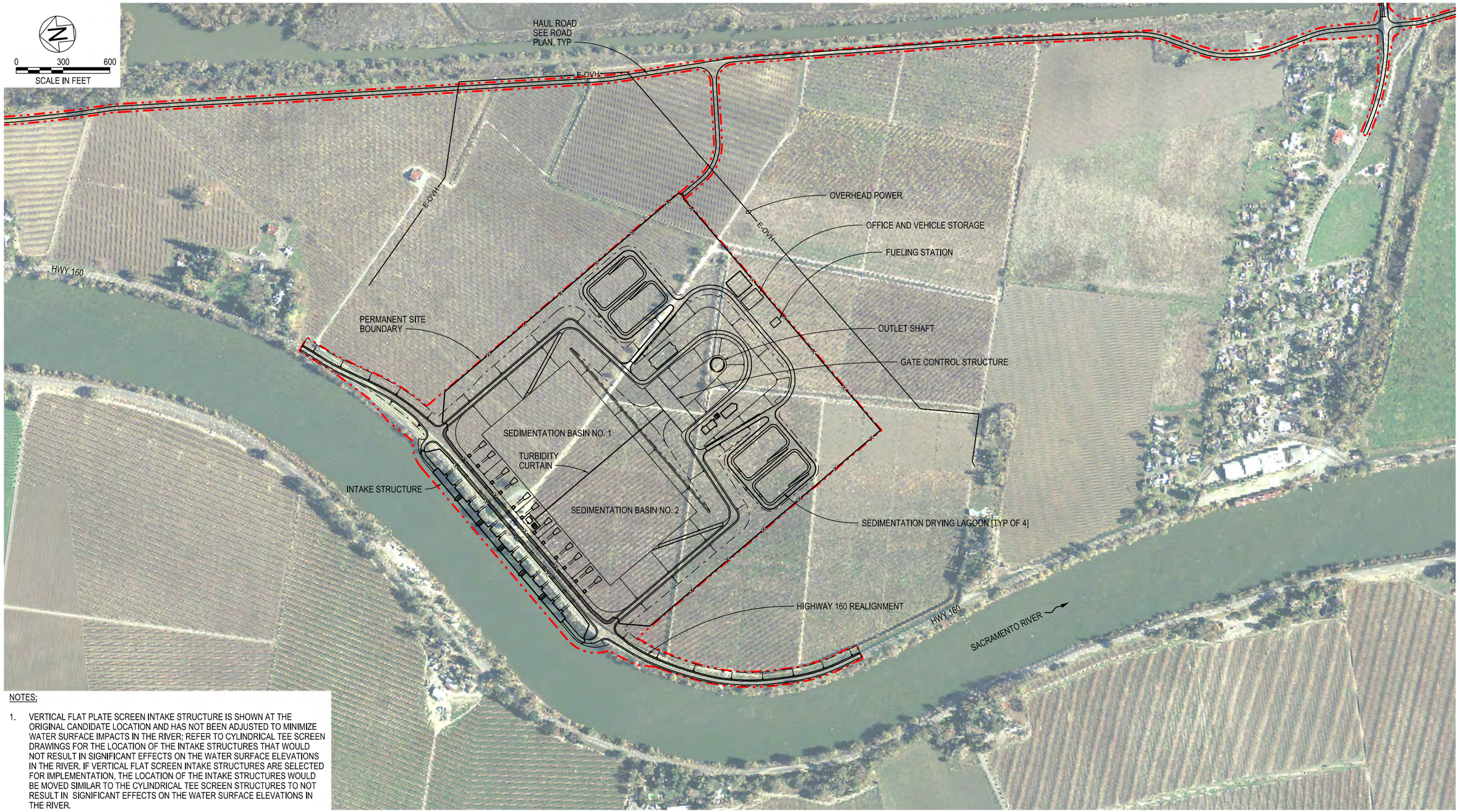
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 3 - VERTICAL SCREEN OPTION CONSTRUCTION PHASE OVERVIEW

PROJECT NO. W8X97000
SHEET NO. STX-C-1011IT
REV | SEQUENCE NO. X

STX-C-1011IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:7:52:04 PM



NOTES:

1. VERTICAL FLAT PLATE SCREEN INTAKE STRUCTURE IS SHOWN AT THE ORIGINAL CANDIDATE LOCATION AND HAS NOT BEEN ADJUSTED TO MINIMIZE WATER SURFACE IMPACTS IN THE RIVER; REFER TO CYLINDRICAL TEE SCREEN DRAWINGS FOR THE LOCATION OF THE INTAKE STRUCTURES THAT WOULD NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER. IF VERTICAL FLAT SCREEN INTAKE STRUCTURES ARE SELECTED FOR IMPLEMENTATION, THE LOCATION OF THE INTAKE STRUCTURES WOULD BE MOVED SIMILAR TO THE CYLINDRICAL TEE SCREEN STRUCTURES TO NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER.

PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

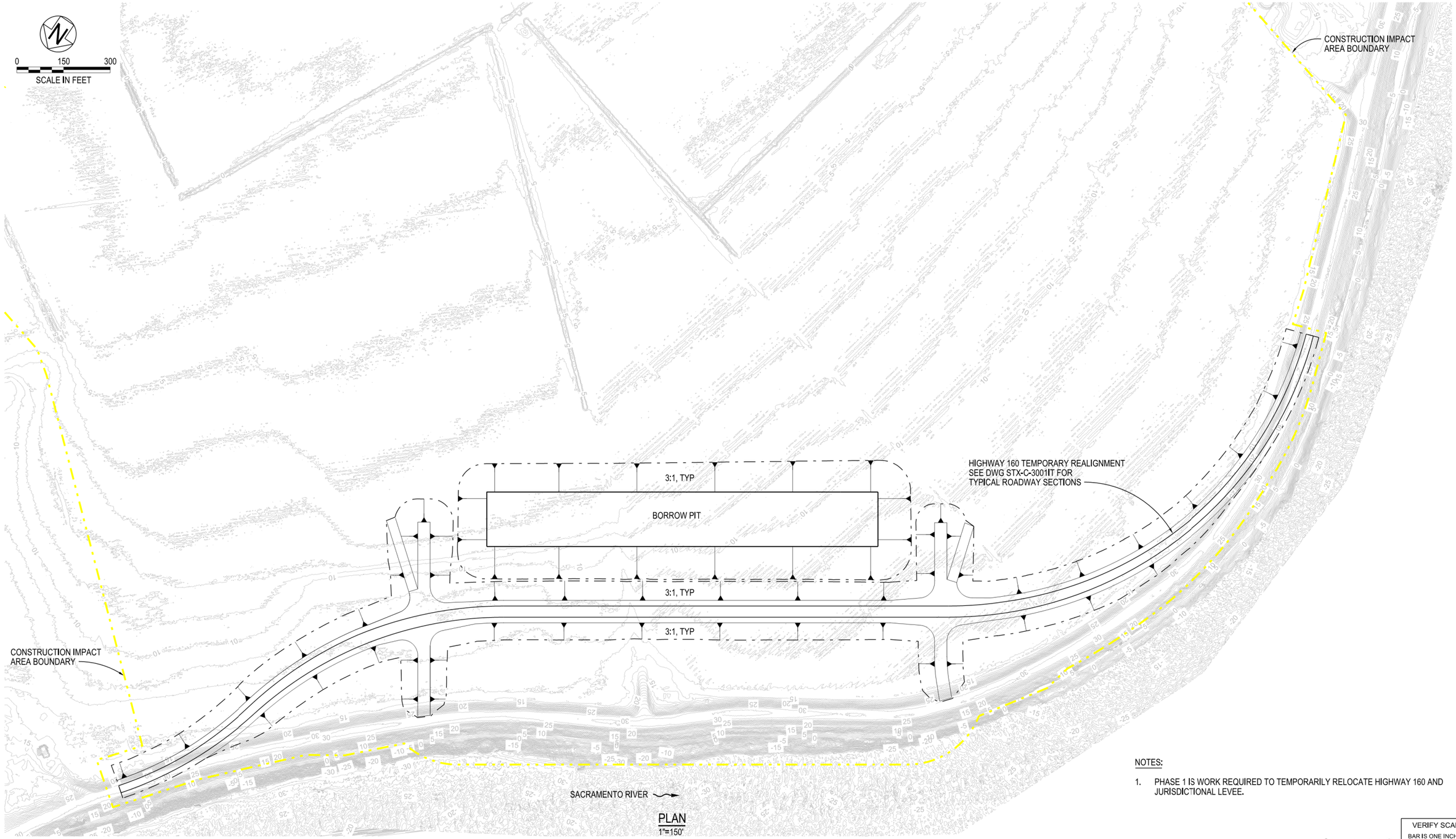
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 3 - VERTICAL SCREEN OPTION FINAL OVERVIEW

PROJECT NO. W8X97000
SHEET NO. STX-C-1011AIT
REV X
SEQUENCE NO.

STX-C-1011AIT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:7:55:12 PM



PLAN
1"=150'

NOTES:

1. PHASE 1 IS WORK REQUIRED TO TEMPORARILY RELOCATE HIGHWAY 160 AND JURISDICTIONAL LEVEE.

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: D CORBETT
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 3 - VERTICAL SCREEN OPTION PHASE 1 SITE PLAN

PROJECT NO.: W8X97000
SHEET NO.: STX-C-1012IT
REV:
SEQUENCE NO.: X

STX-C-1012IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:54:42 AM

NOTES:

1. PHASE 2 IS WORK REQUIRED TO COMPLETE NEW JURISDICTIONAL LEVEE AND OTHER FILLS SO THAT HIGHWAY 160 CAN BE RETURNED TO FINAL LOCATION.
2. PHASE 2 SHOWN FOR INTAKE 3 ONLY. SIMILAR EFFORT REQUIRED FOR OTHER INTAKES.
3. HELICOPTER PAD IS A CONSTRUCTION PHASE FACILITY AND IS TO E REMOVED WHEN CONSTRUCTION IS COMPLETE.
4. VERTICAL FLAT PLATE SCREEN INTAKE STRUCTURE IS SHOWN AT THE ORIGINAL CANDIDATE LOCATION AND HAS NOT BEEN ADJUSTED TO MINIMIZE WATER SURFACE IMPACTS IN THE RIVER; REFER TO CYLINDRICAL TEE SCREEN DRAWINGS FOR THE LOCATION OF THE INTAKE STRUCTURES THAT WOULD NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER. IF VERTICAL FLAT SCREEN INTAKE STRUCTURES ARE SELECTED FOR IMPLEMENTATION, THE LOCATION OF THE INTAKE STRUCTURES WOULD BE MOVED SIMILAR TO THE CYLINDRICAL TEE SCREEN STRUCTURES TO NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER.

0 150 300
SCALE IN FEET

FUELING STATION
HELICOPTER PAD, SEE NOTE 3
CONSTRUCTION PHASE FIRE STATION
H
3:1
OUTLET SHAFT
TEMPORARY SHAFT CONSTRUCTION PAD
EARTHWORK AND RELATED WORK FOR JURISDICTIONAL LEVEE
20' WIDE RAMP AT 12%, TYP
24' WIDE ACCESS ROAD, TYP
SEDIMENTATION BASIN (BORROW PIT)
CONSTRUCTION IMPACT AREA BOUNDARY
BOX CONDUIT W/ GATE CHAMBER, TYP
HIGHWAY 160 REALIGHMENT SEE DWG STX-C-3001I FOR TYPICAL ROADWAY SECTIONS
INTAKE STRUCTURE
SACRAMENTO RIVER

PLAN
1"=150'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: D CORBETT
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 3 - VERTICAL SCREEN OPTION PHASE 2 SITE PLAN

PROJECT NO.: W8X97000
SHEET NO.: STX-C-1013IT
REV: | SEQUENCE NO.: X

STX-C-1013IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:55:17 AM

0 150 300
SCALE IN FEET

NOTES:

1. PHASE 3 IS FINISHED SITE PLAN.
2. ENERGY DISSIPATION BLOCKS AT THE RADIAL GATE STRUCTURE AND FLOW CONTROL GUIDE VEINS FOR SHAFT HYDRAULICS TO BE CONSIDERED DURING DETAILED DESIGN.
3. ACCESS RAMP TO OUTLET CHANNEL, SAFETY LADDERS, SAFETY BOOMS, AND OTHER FORMS OF SAFETY EGRESS AND WORKER PROTECTION TO BE DEVELOPED AND ADDED DURING DETAILED DESIGN. METAL BEAM GUARD RAIL WILL BE REPLACED BY TEMPORARY RAILING (TYPE K) TO ALLOW ACCESS TO THE TOP OF RAMP.
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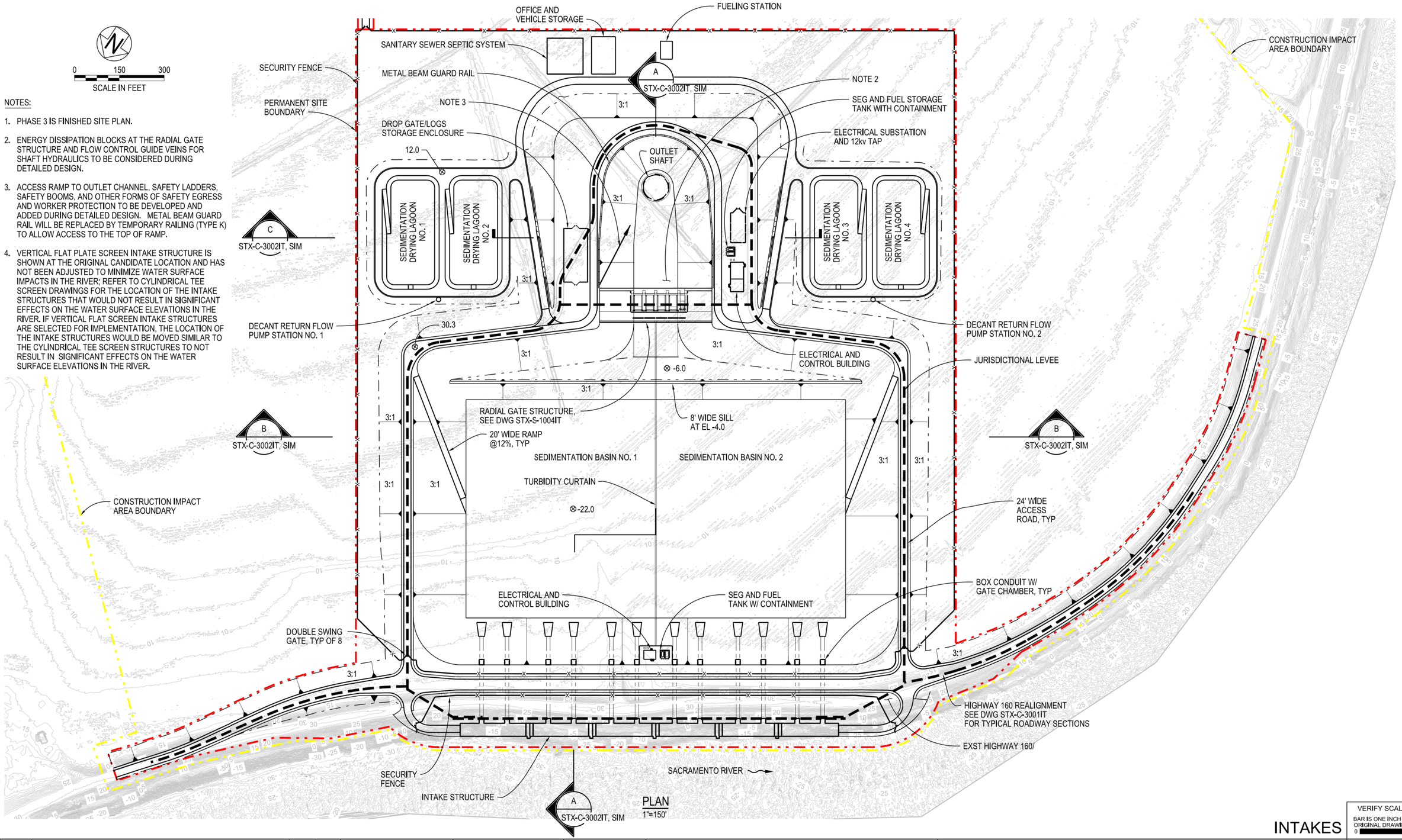


INTAKES

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED	B CHELONIS
DRAWN	D CORBETT
CHECKED	J REYNOLDS
APPROVAL RECOMMENDED	
APPROVAL BY	P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

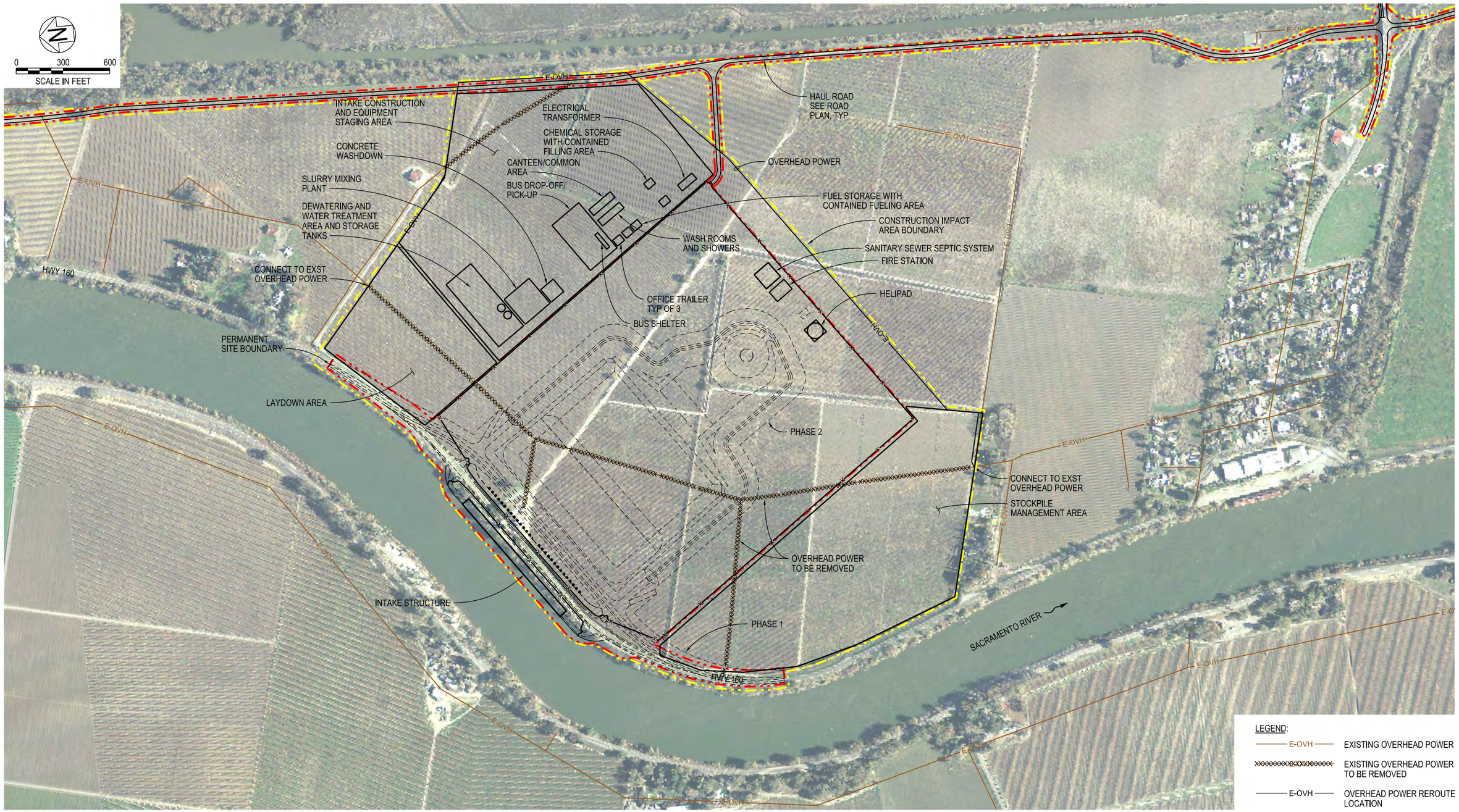
INTAKE 3 - VERTICAL SCREEN OPTION
PHASE 3 SITE PLAN

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

PROJECT NO. W8X97000
SHEET NO. STX-C-1014IT
REV
SEQUENCE NO. X

STX-C-1014IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:54:41 AM



PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

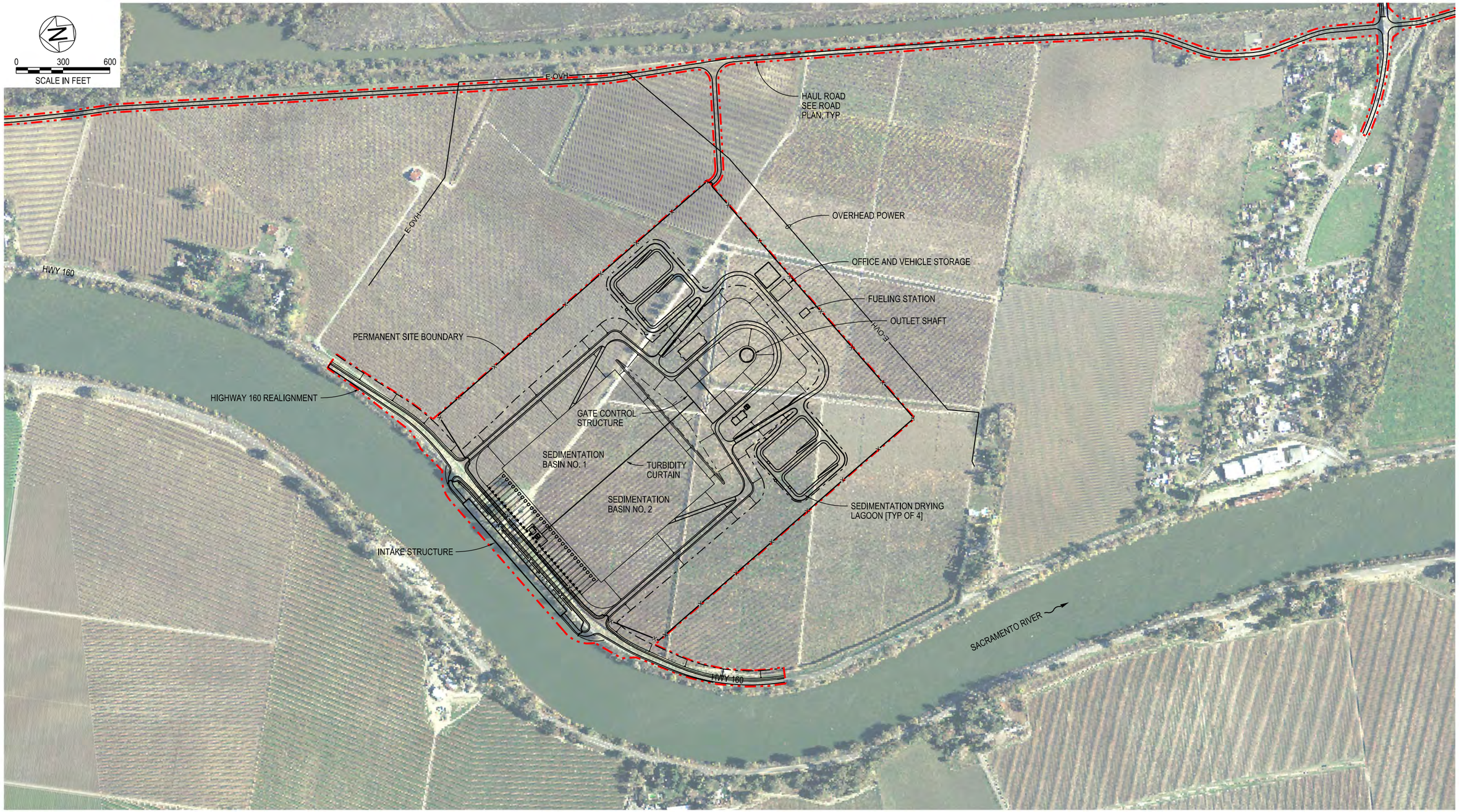
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 3 - TEE SCREEN OPTION CONSTRUCTION PHASE OVERVIEW

PROJECT NO. W8X97000
SHEET NO. STX-C-1015IT
REV
SEQUENCE NO. X

STX-C-1015IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:8:08:14 PM



PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DCA
DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 3 - TEE SCREEN OPTION
FINAL OVERVIEW

PROJECT NO.
SHEET NO.
STX-C-1015AIT
REV
SEQUENCE NO.
X

STX-C-1015AIT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:8:09:59 PM

0 150 300
SCALE IN FEET

CONSTRUCTION IMPACT AREA BOUNDARY

HIGHWAY 160 AND JURISDICTIONAL LEVEE TEMPORARY REALIGNMENT SEE DWG STX-C-3001IT FOR TYPICAL ROADWAY SECTIONS

3:1, TYP

BORROW PIT

3:1, TYP

3:1, TYP

CONSTRUCTION IMPACT AREA BOUNDARY

VARIES

LIMIT OF FILL

EXST HWY 160

SACRAMENTO RIVER

PLAN
1"=150'

NOTES:

1. PHASE 1 IS WORK REQUIRED TO TEMPORARILY RELOCATE HIGHWAY 160 AND JURISDICTIONAL LEVEE.

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: D CORBETT
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

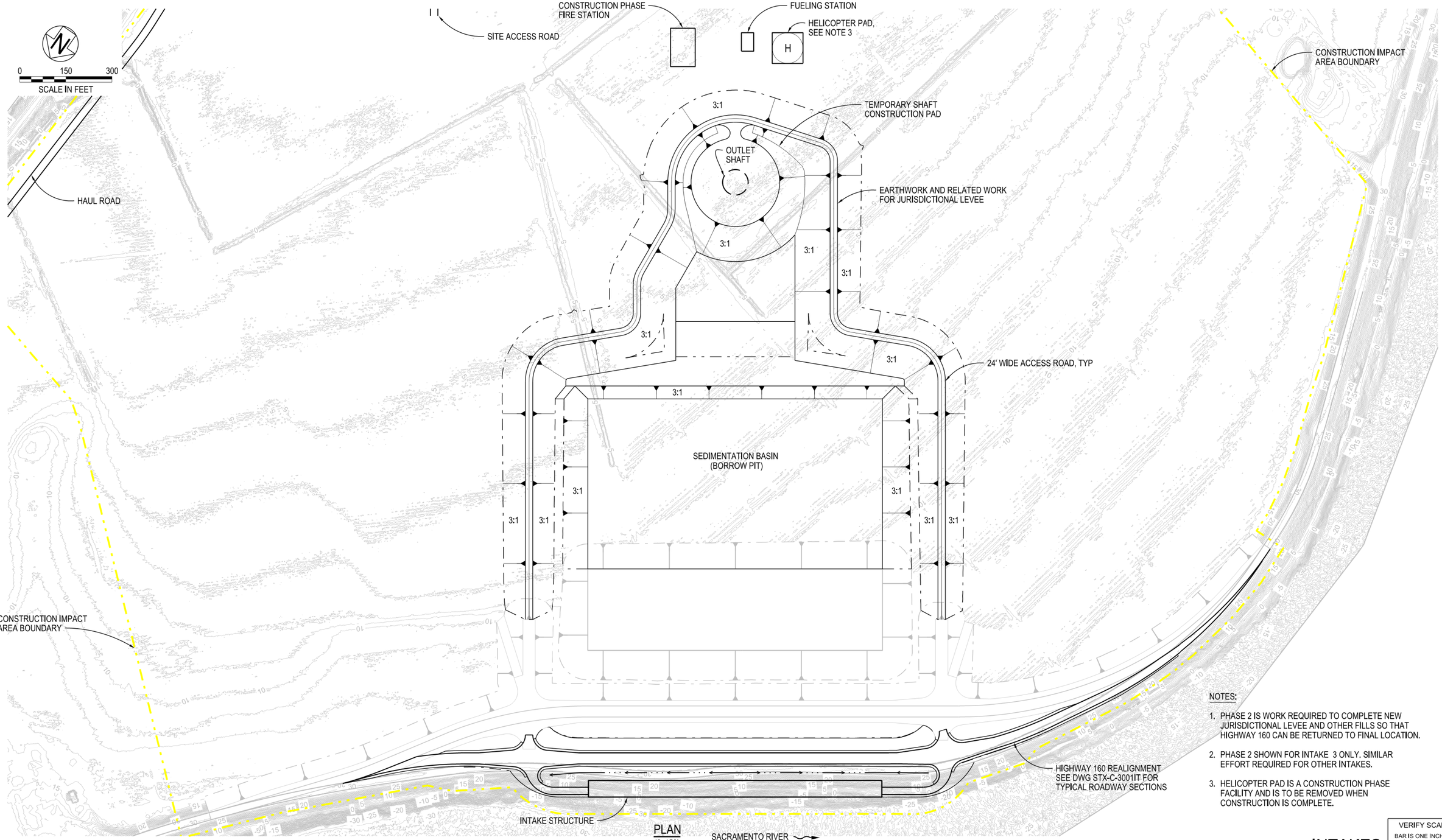
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 3 - TEE SCREEN OPTION
PHASE 1 SITE PLAN

PROJECT NO.
SHEET NO. STX-C-1016IT
REV | SEQUENCE NO. X

STX-C-1016IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:54:45 AM



PLAN
1"=150'

NOTES:

1. PHASE 2 IS WORK REQUIRED TO COMPLETE NEW JURISDICTIONAL LEVEE AND OTHER FILLS SO THAT HIGHWAY 160 CAN BE RETURNED TO FINAL LOCATION.
2. PHASE 2 SHOWN FOR INTAKE 3 ONLY. SIMILAR EFFORT REQUIRED FOR OTHER INTAKES.
3. HELICOPTER PAD IS A CONSTRUCTION PHASE FACILITY AND IS TO BE REMOVED WHEN CONSTRUCTION IS COMPLETE.

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: D CORBETT
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

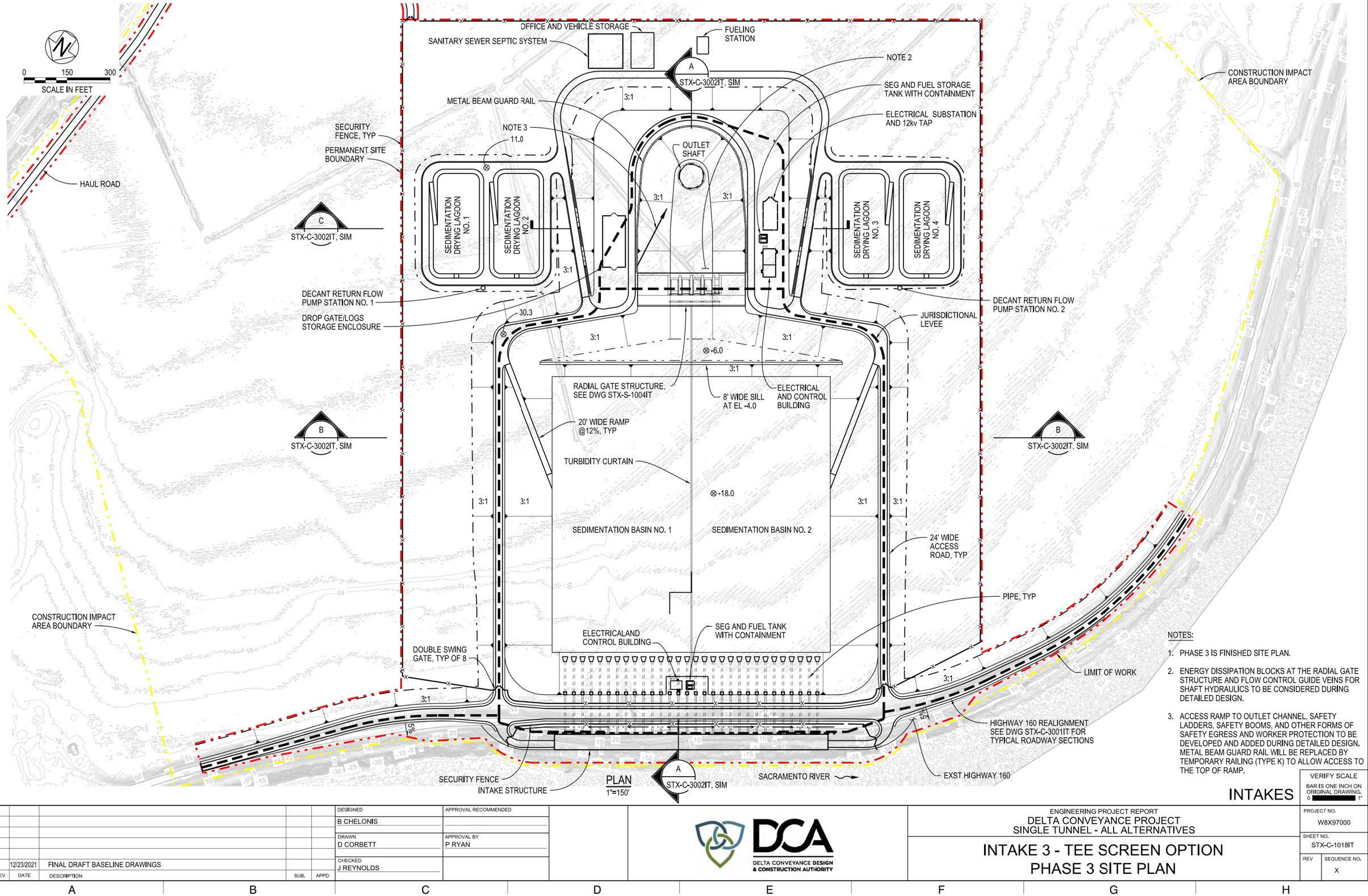
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 3 - TEE SCREEN OPTION
PHASE 2 SITE PLAN

PROJECT NO.: W8X97000
SHEET NO.: STX-C-1017IT
REV:
SEQUENCE NO.: X

STX-C-1017IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:55:33 AM



NOTES:

1. PHASE 3 IS FINISHED SITE PLAN.
2. ENERGY DISSIPATION BLOCKS AT THE RADIAL GATE STRUCTURE AND FLOW CONTROL GUIDE VEINS FOR SHAFT HYDRAULICS TO BE CONSIDERED DURING DETAILED DESIGN.
3. ACCESS RAMP TO OUTLET CHANNEL, SAFETY LADDERS, SAFETY BOOMS, AND OTHER FORMS OF SAFETY EGRESS AND WORKER PROTECTION TO BE DEVELOPED AND ADDED DURING DETAILED DESIGN. METAL BEAM GUARD RAIL WILL BE REPLACED BY TEMPORARY RAILING (TYPE K) TO ALLOW ACCESS TO THE TOP OF RAMP.

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

INTAKES

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
APPROVAL RECOMMENDED:
DRAWN: D CORBETT
APPROVAL BY: P RYAN
CHECKED: J REYNOLDS

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 3 - TEE SCREEN OPTION
PHASE 3 SITE PLAN

PROJECT NO.: W8X97000
SHEET NO.: STX-C-1018IT
REV:
SEQUENCE NO.: X

STX-C-1018IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:55:39 AM

PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

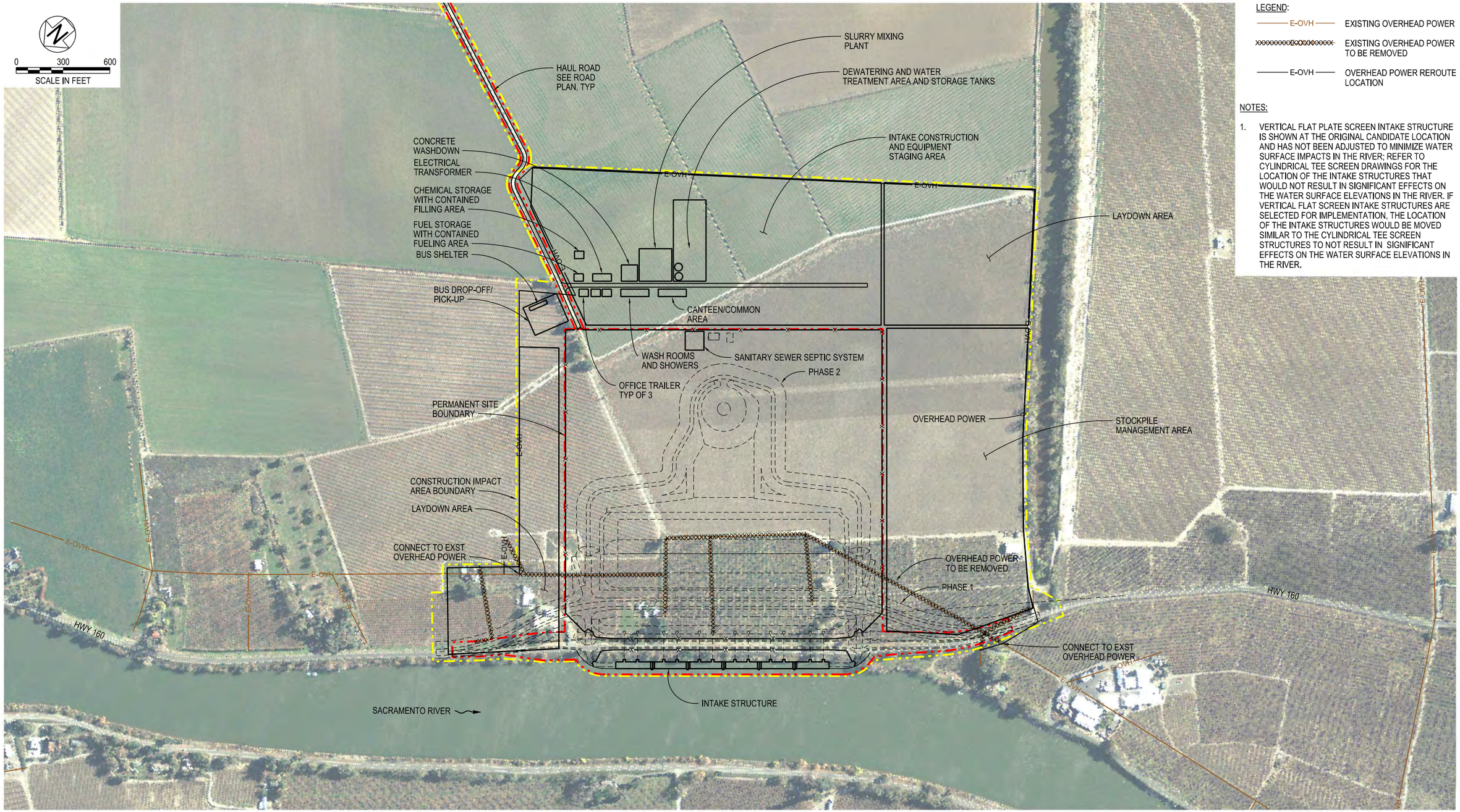
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 5
EXISTING PLAN

PROJECT NO. W8X97000
SHEET NO. STX-C-1019IT
REV X
SEQUENCE NO.

STX-C-1019IT_W8X97000.dgn

PLOT DATE:2021\12\07 PLOT TIME:8:30:23 AM



PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

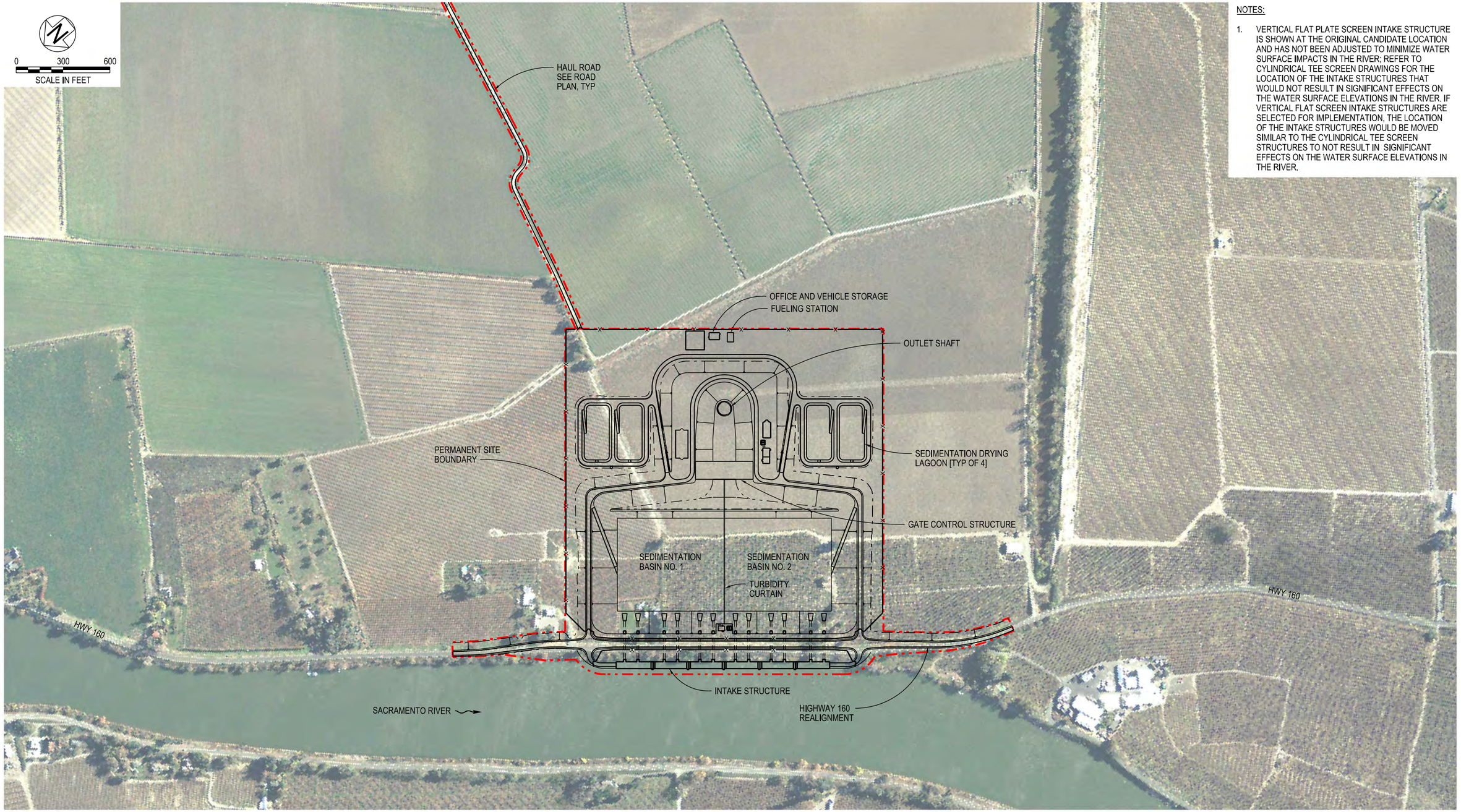
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 5 - VERTICAL SCREEN OPTION CONSTRUCTION PHASE OVERVIEW

PROJECT NO. W8X97000
SHEET NO. STX-C-1020IT
REV
SEQUENCE NO. X

STX-C-1020IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:8:13:17 PM



NOTES:

1. VERTICAL FLAT PLATE SCREEN INTAKE STRUCTURE IS SHOWN AT THE ORIGINAL CANDIDATE LOCATION AND HAS NOT BEEN ADJUSTED TO MINIMIZE WATER SURFACE IMPACTS IN THE RIVER; REFER TO CYLINDRICAL TEE SCREEN DRAWINGS FOR THE LOCATION OF THE INTAKE STRUCTURES THAT WOULD NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER. IF VERTICAL FLAT SCREEN INTAKE STRUCTURES ARE SELECTED FOR IMPLEMENTATION, THE LOCATION OF THE INTAKE STRUCTURES WOULD BE MOVED SIMILAR TO THE CYLINDRICAL TEE SCREEN STRUCTURES TO NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER.

PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

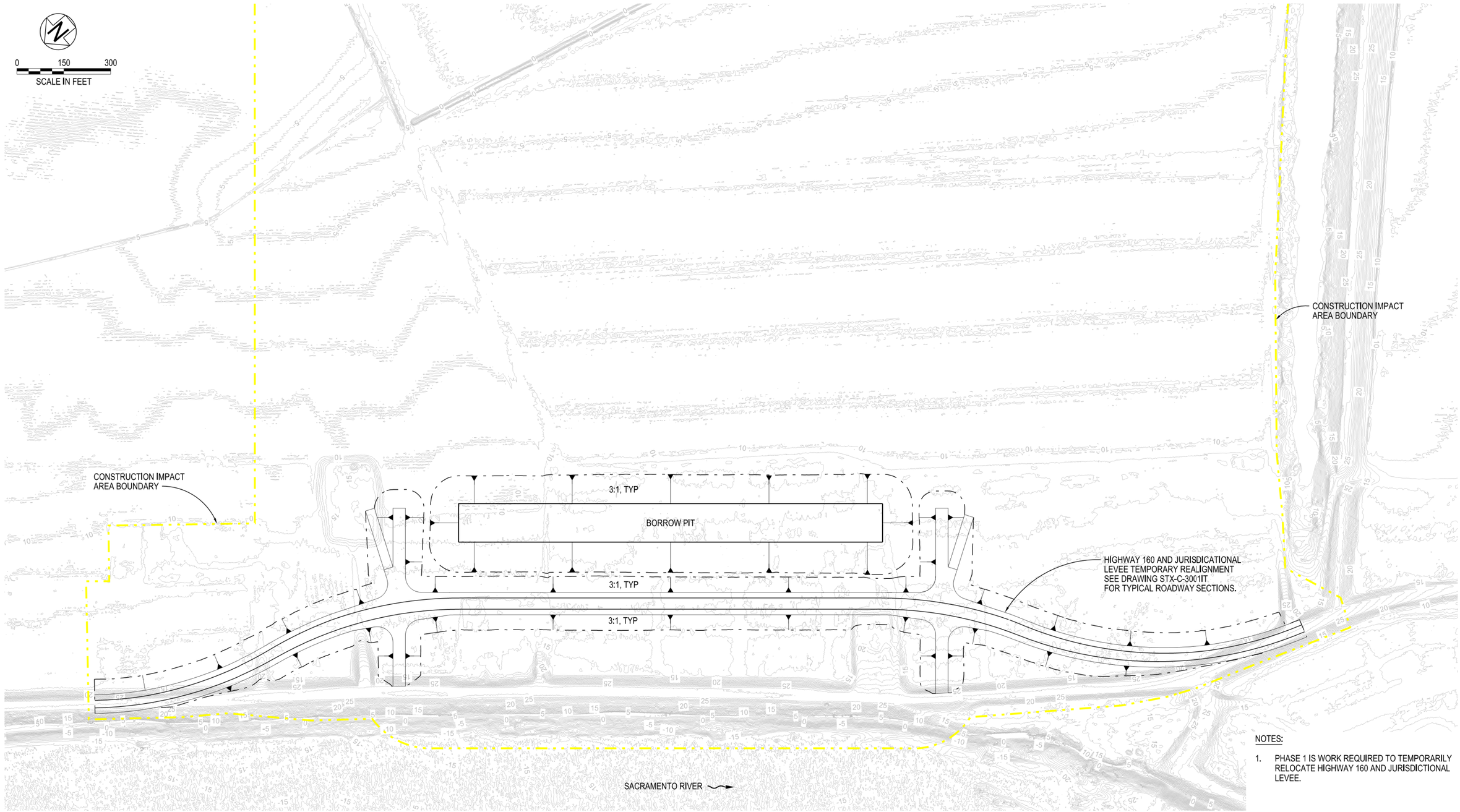
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 5 - VERTICAL SCREEN OPTION
FINAL OVERVIEW

PROJECT NO. W8X97000
SHEET NO. STX-C-1020AIT
REV
SEQUENCE NO. X

STX-C-1020AIT_W8X97000.dgn

PLOT DATE:2021\12\09 PLOT TIME:8:24:15 AM



PLAN
1"=150'

NOTES:

1. PHASE 1 IS WORK REQUIRED TO TEMPORARILY RELOCATE HIGHWAY 160 AND JURISDICTIONAL LEVEE.

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: D CORBETT
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

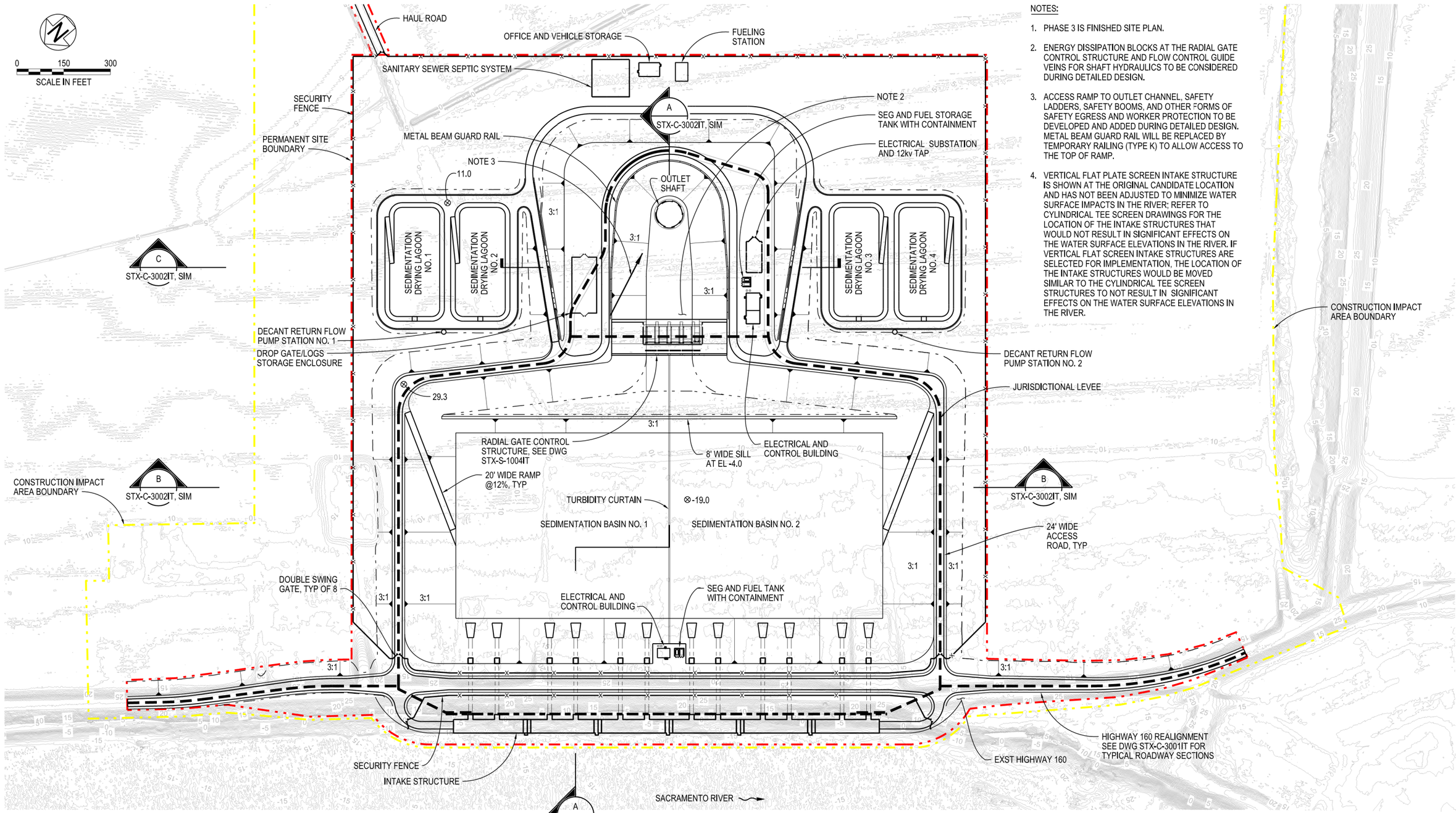
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 5 - VERTICAL SCREEN OPTION PHASE 1 SITE PLAN

PROJECT NO.: W8X97000
SHEET NO.: STX-C-1021IT
REV:
SEQUENCE NO.: X

STX-C-1021IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:55:17 AM



PLAN
1"=150'

NOTES:

1. PHASE 3 IS FINISHED SITE PLAN.
2. ENERGY DISSIPATION BLOCKS AT THE RADIAL GATE CONTROL STRUCTURE AND FLOW CONTROL GUIDE VEINS FOR SHAFT HYDRAULICS TO BE CONSIDERED DURING DETAILED DESIGN.
3. ACCESS RAMP TO OUTLET CHANNEL, SAFETY LADDERS, SAFETY BOOMS, AND OTHER FORMS OF SAFETY EGRESS AND WORKER PROTECTION TO BE DEVELOPED AND ADDED DURING DETAILED DESIGN. METAL BEAM GUARD RAIL WILL BE REPLACED BY TEMPORARY RAILING (TYPE K) TO ALLOW ACCESS TO THE TOP OF RAMP.
4. VERTICAL FLAT PLATE SCREEN INTAKE STRUCTURE IS SHOWN AT THE ORIGINAL CANDIDATE LOCATION AND HAS NOT BEEN ADJUSTED TO MINIMIZE WATER SURFACE IMPACTS IN THE RIVER; REFER TO CYLINDRICAL TEE SCREEN DRAWINGS FOR THE LOCATION OF THE INTAKE STRUCTURES THAT WOULD NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER. IF VERTICAL FLAT SCREEN INTAKE STRUCTURES ARE SELECTED FOR IMPLEMENTATION, THE LOCATION OF THE INTAKE STRUCTURES WOULD BE MOVED SIMILAR TO THE CYLINDRICAL TEE SCREEN STRUCTURES TO NOT RESULT IN SIGNIFICANT EFFECTS ON THE WATER SURFACE ELEVATIONS IN THE RIVER.

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: D CORBETT
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

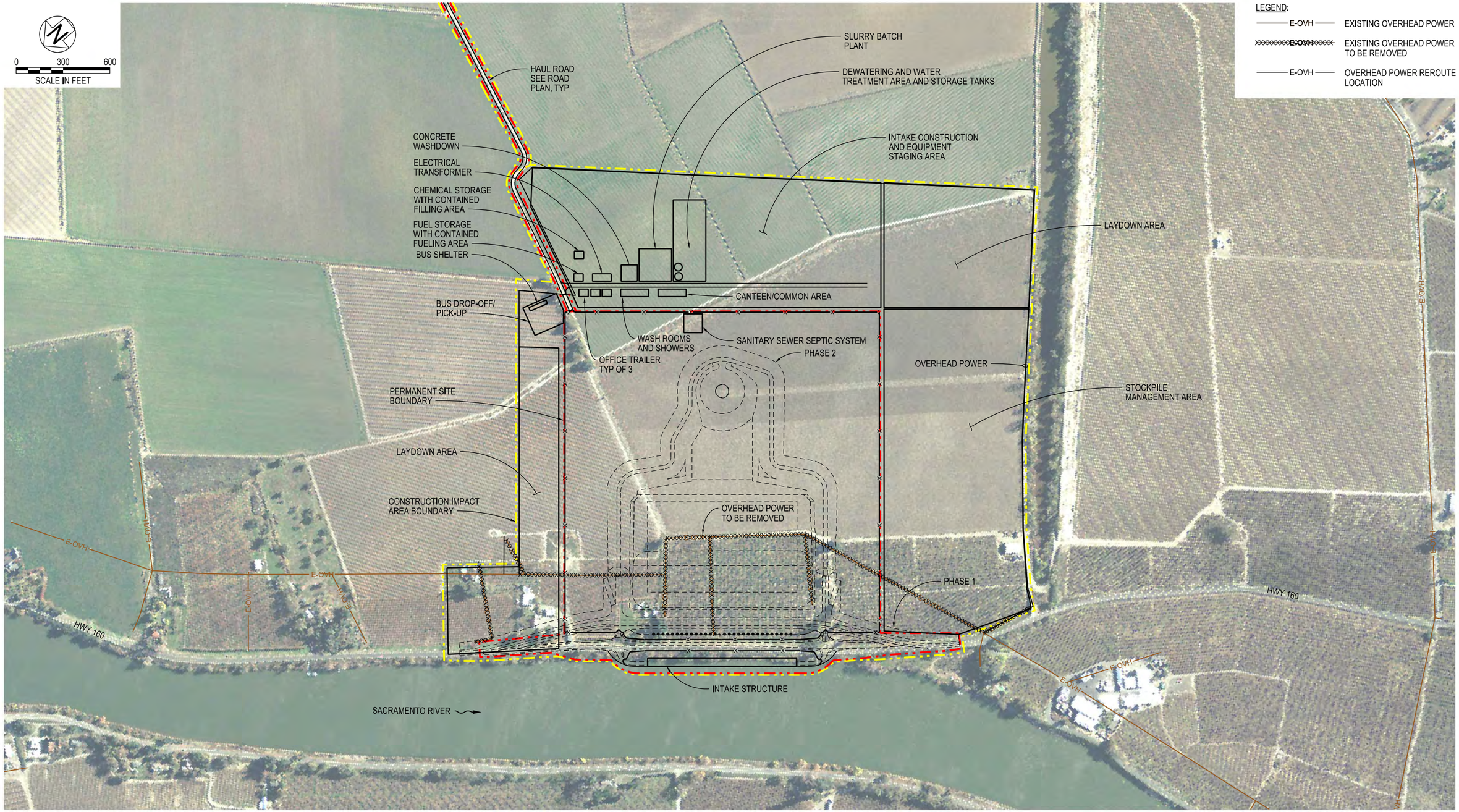
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 5 - VERTICAL SCREEN OPTION PHASE 3 SITE PLAN

PROJECT NO.: W8X97000
SHEET NO.: STX-C-1023IT
REV:
SEQUENCE NO.: X

STX-C-1023IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:55:26 AM



PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

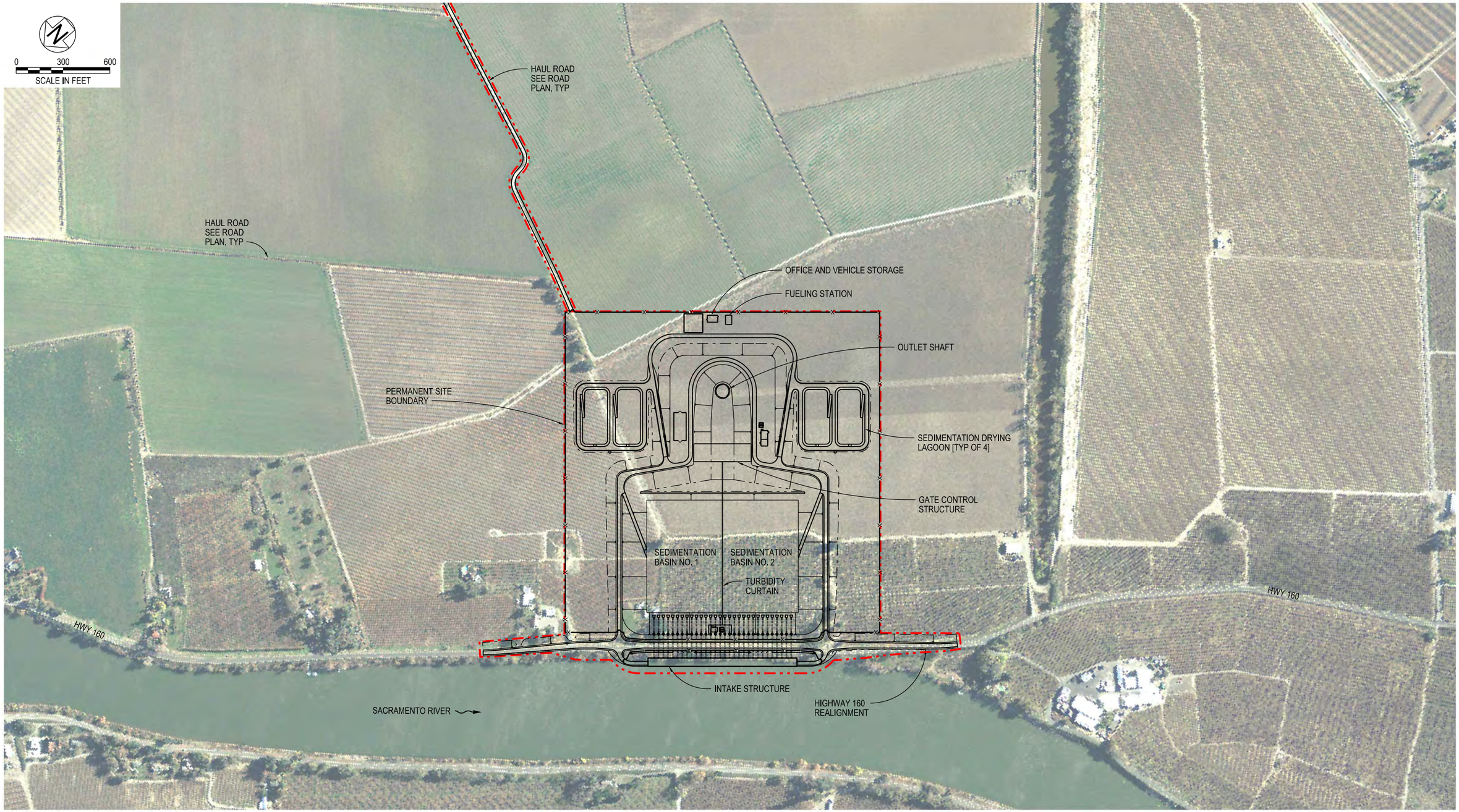
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 5 - TEE SCREEN OPTION CONSTRUCTION PHASE OVERVIEW

PROJECT NO. W8X97000
SHEET NO. STX-C-1024IT
REV
SEQUENCE NO. X

STX-C-1024IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:8:17:08 PM



PLAN
1"=300'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

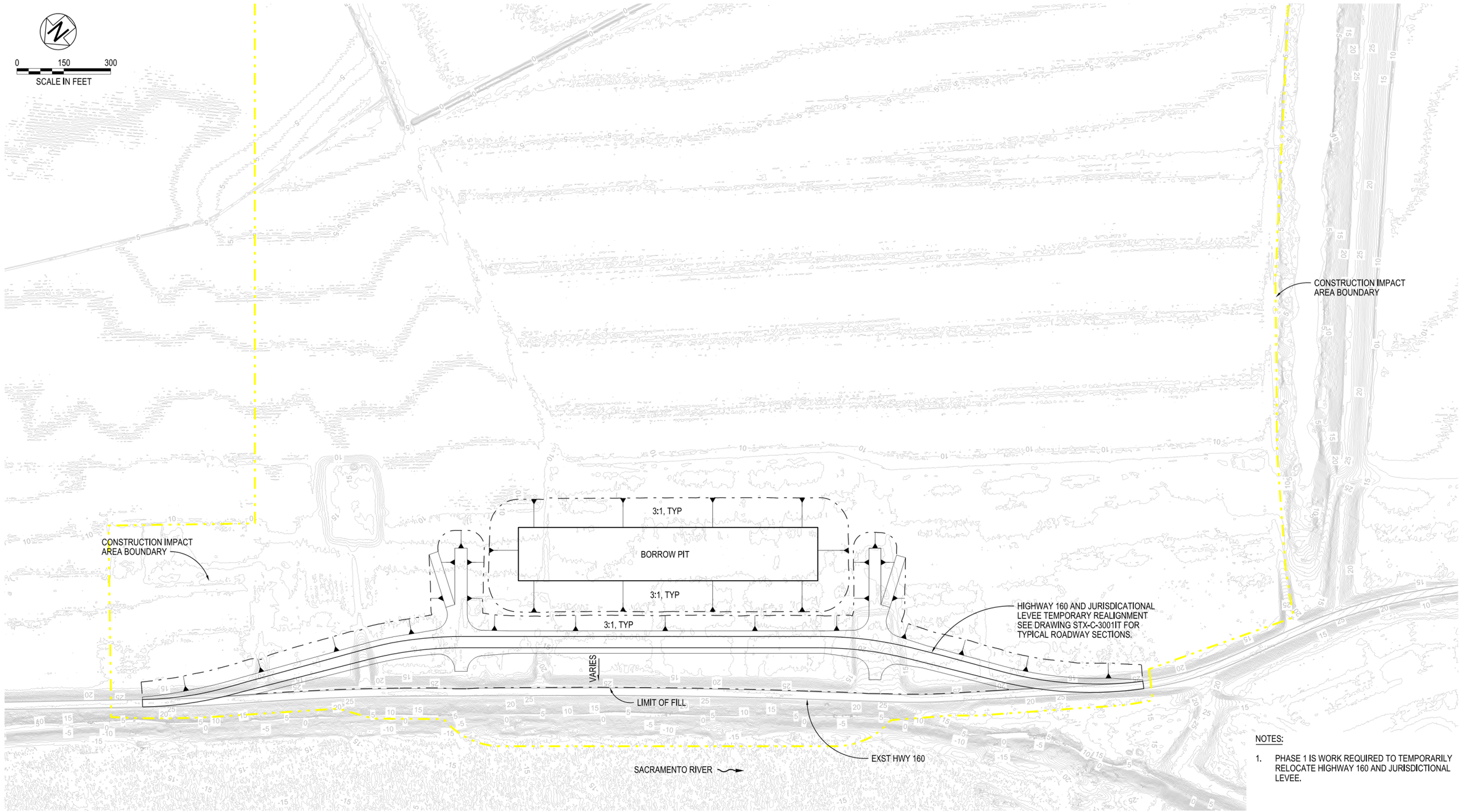
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 5 - TEE SCREEN OPTION
FINAL OVERVIEW

PROJECT NO. W8X97000
SHEET NO. STX-C-1024AIT
REV
SEQUENCE NO. X

STX-C-1024AIT_W8X97000.dgn

PLOT DATE:2021\12\09 PLOT TIME:8:26:55 AM



PLAN
1"=150'

NOTES:

1. PHASE 1 IS WORK REQUIRED TO TEMPORARILY RELOCATE HIGHWAY 160 AND JURISDICTIONAL LEVEE.

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: D CORBETT
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

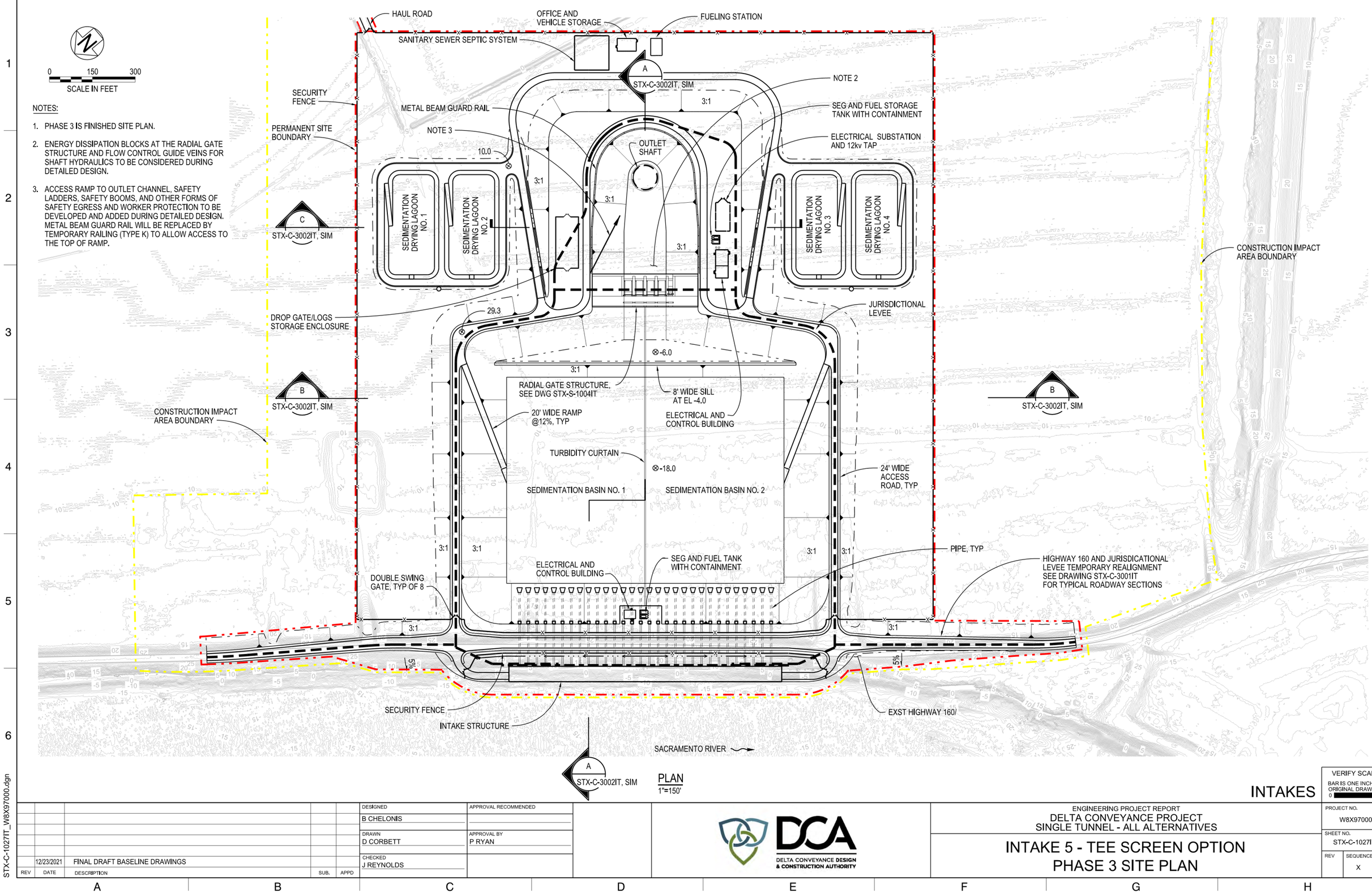
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 5 - TEE SCREEN OPTION
PHASE 1 SITE PLAN

PROJECT NO.: W8X97000
SHEET NO.: STX-C-1025IT
REV:
SEQUENCE NO.: X

STX-C-1025IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:55:17 AM



INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
APPROVAL RECOMMENDED:
DRAWN: D CORBETT
APPROVAL BY: P RYAN
CHECKED: J REYNOLDS

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 5 - TEE SCREEN OPTION
PHASE 3 SITE PLAN

PROJECT NO. W8X97000
SHEET NO. STX-C-1027IT
REV
SEQUENCE NO. X

STX-C-1027IT_W8X97000.dgn

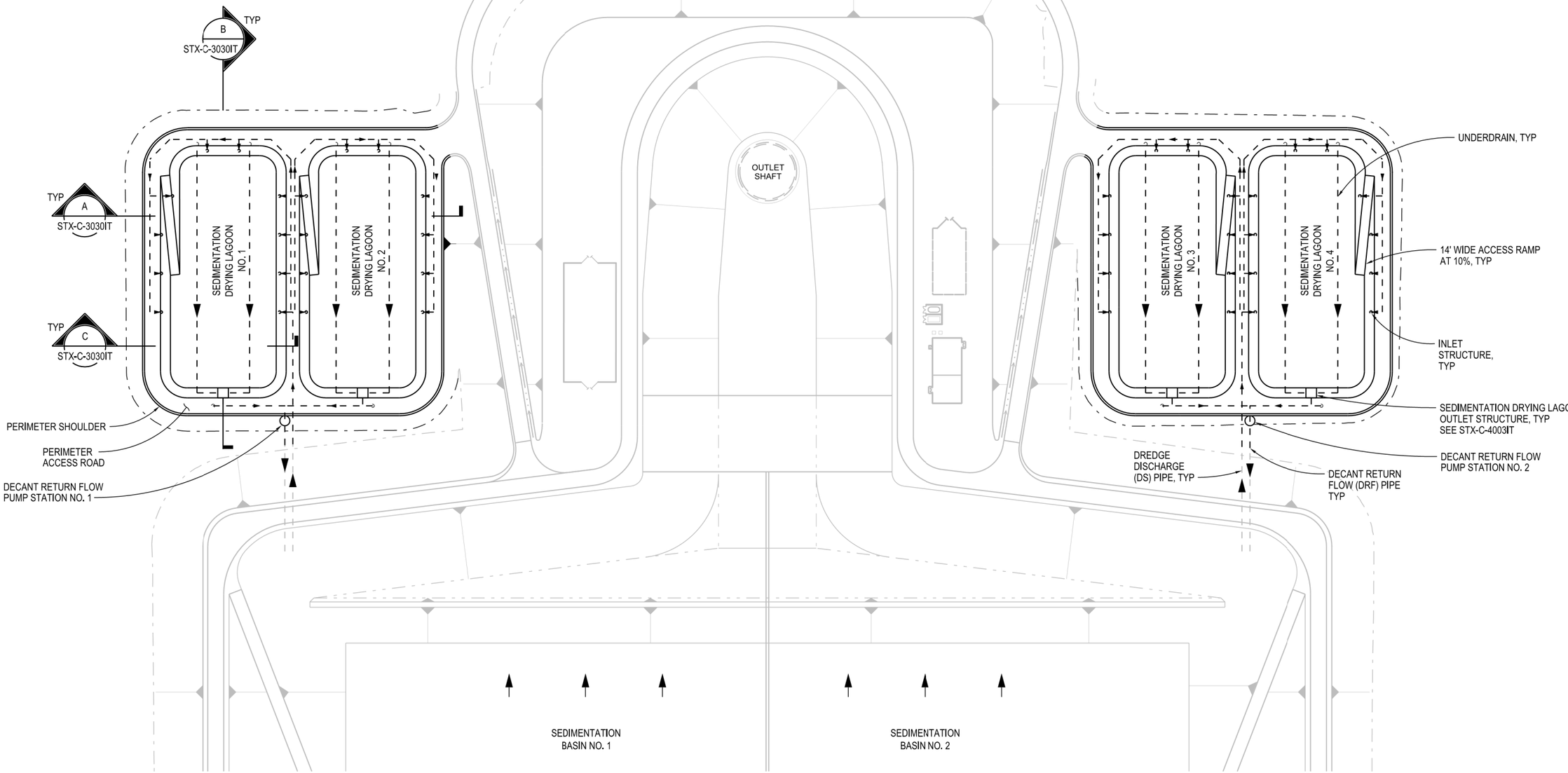
PLOT DATE:12/16/2021 PLOT TIME:6:55:23 AM

INTAKE NO. 2
(SIMILAR)

INTAKE NO. 3
(SHOWN)

INTAKE NO. 5
(SIMILAR)

0 80 160
SCALE IN FEET



PLAN
1"=80'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN:
CHECKED: J REYNOLDS
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

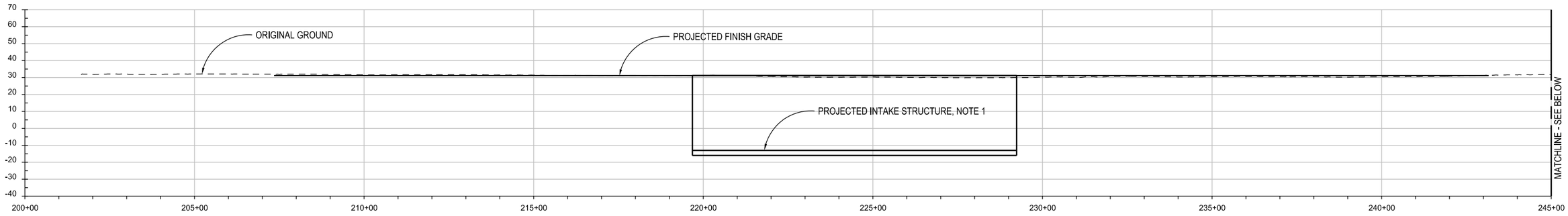
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

SEDIMENTATION DRYING LAGOON TYPICAL PLAN

PROJECT NO.
SHEET NO. STX-C-1030IT
REV
SEQUENCE NO. X

STX-C-1030IT_W8X97000.dgn

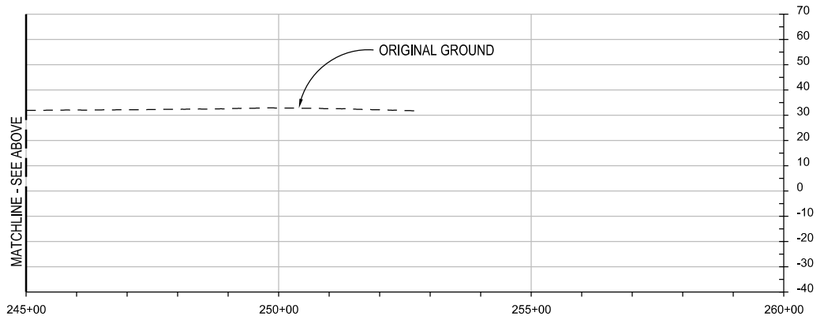
PLOT DATE:12/16/2021 PLOT TIME:6:54:03 AM



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 2

PROFILE

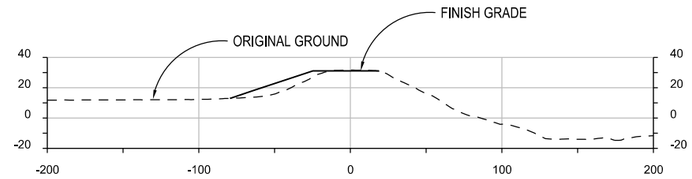
1"=150'



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 2

PROFILE - CONTINUED

1"=150'



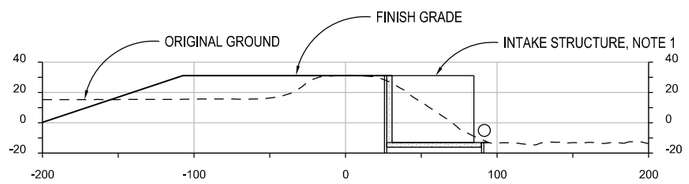
EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 2

SECTION - STA 210+00

1"=50'

NOTE:

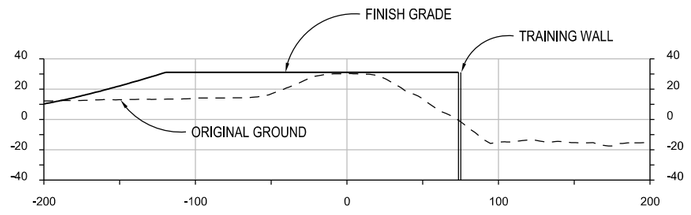
1. CYLINDRICAL TEE SCREEN STRUCTURE SHOWN; VERTICAL FLAT PLATE SCREEN STRUCTURE SIMILAR.



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 2

SECTION - STA 220+00

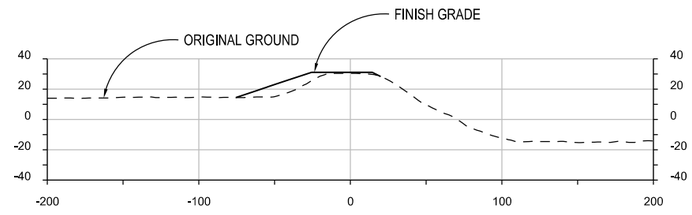
1"=50'



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 2

SECTION - STA 230+00

1"=50'



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 2

SECTION - STA 240+00

1"=50'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

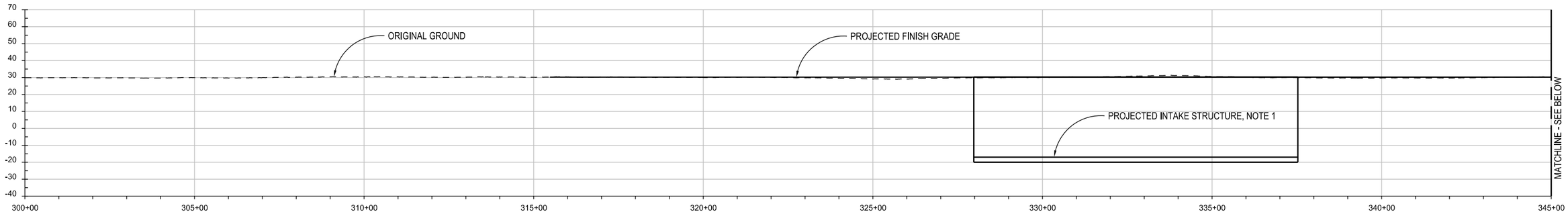
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 2 - EXISTING LEVEE PROFILE AND CROSS SECTIONS W/ FINISH GRADE

PROJECT NO. W8X97000
SHEET NO. STX-C-2001IT
REV
SEQUENCE NO.

STX-C-2001IT_W8X97000.dgn

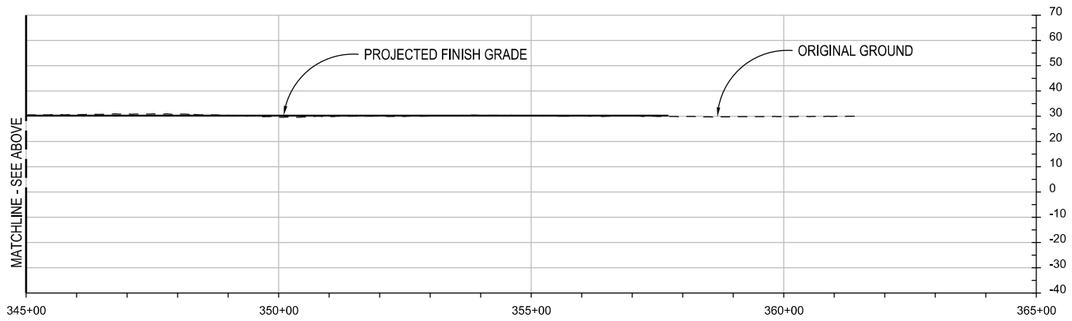
PLOT DATE:2021\12\07 PLOT TIME:10:43:40 AM



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 3

PROFILE

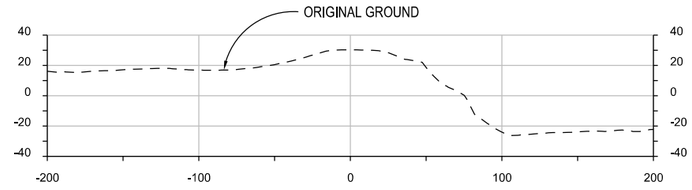
1"=150'



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 3

PROFILE - CONTINUED

1"=150'



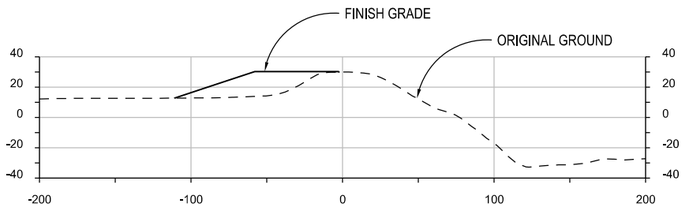
EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 3

SECTION - STA 310+00

1"=50'

NOTE:

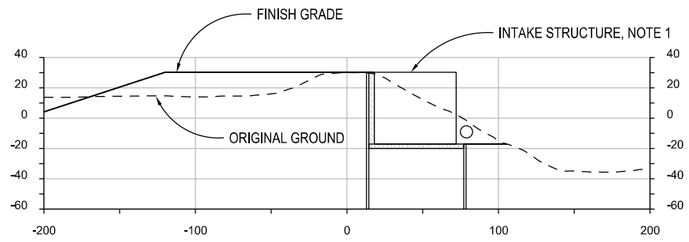
1. CYLINDRICAL TEE SCREEN STRUCTURE SHOWN; VERTICAL FLAT PLATE SCREEN STRUCTURE SIMILAR.



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 3

SECTION - STA 320+00

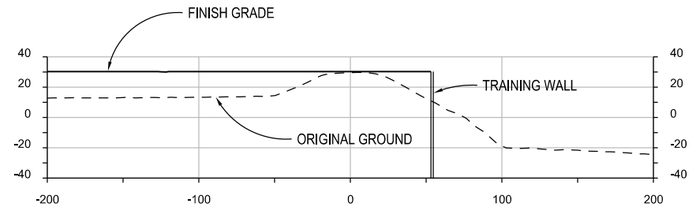
1"=50'



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 3

SECTION - STA 330+00

1"=50'



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 3

SECTION - STA 340+00

1"=50'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

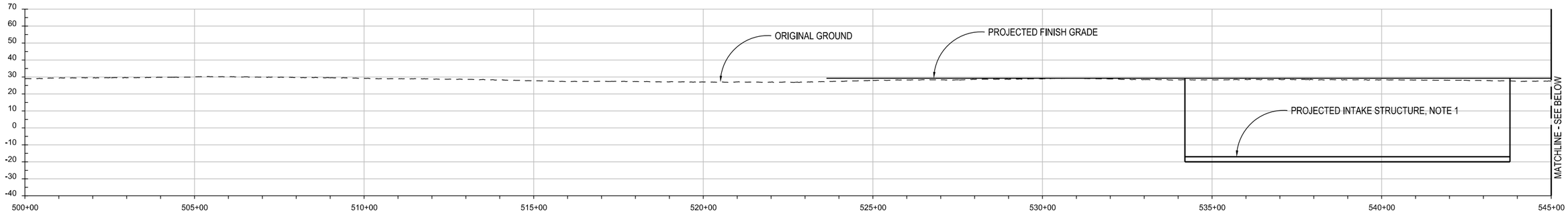
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 3 - EXISTING LEVEE PROFILE AND CROSS SECTIONS W/ FINISH GRADE

PROJECT NO. W8X97000
SHEET NO. STX-C-2002IT
REV
SEQUENCE NO.

STX-C-2002IT_W8X97000.dgn

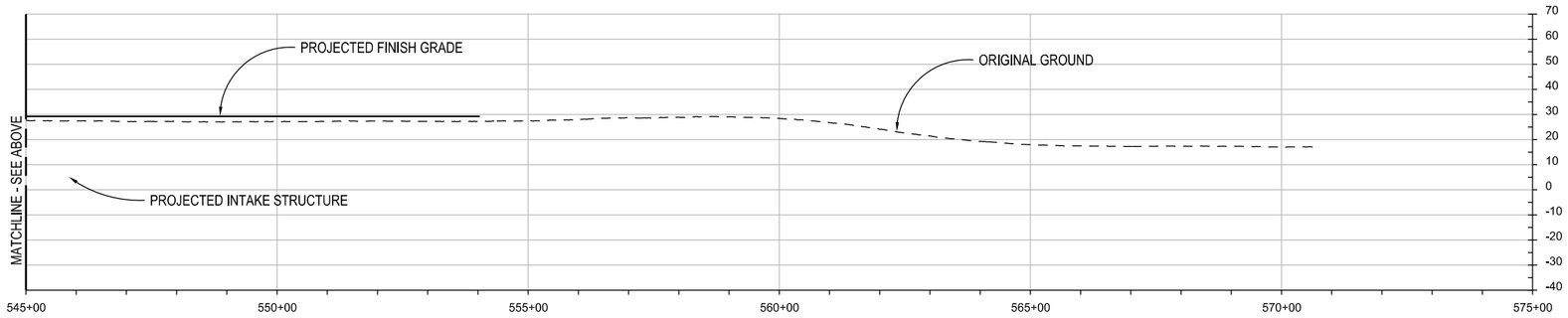
PLOT DATE:2021\12\07 PLOT TIME:10:45:25 AM



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 5

PROFILE

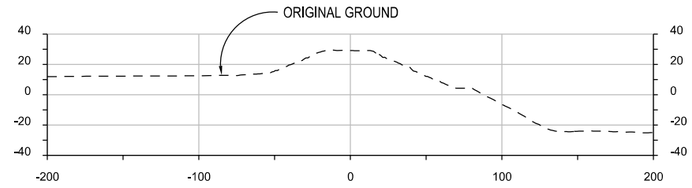
1"=150'



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 5

PROFILE - CONTINUED

1"=150'



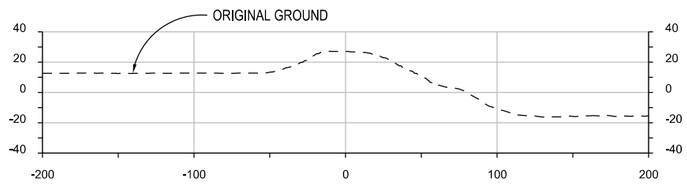
EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 5

SECTION - STA 510+00

1"=50'

NOTE:

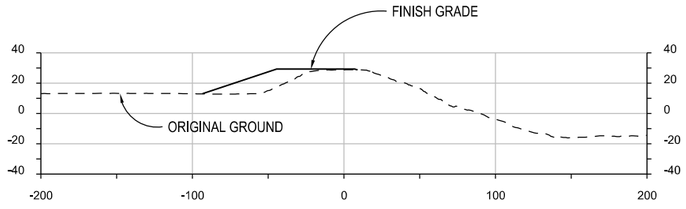
1. CYLINDRICAL TEE SCREEN STRUCTURE SHOWN; VERTICAL FLAT PLATE SCREEN STRUCTURE SIMILAR.



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 5

SECTION - STA 520+00

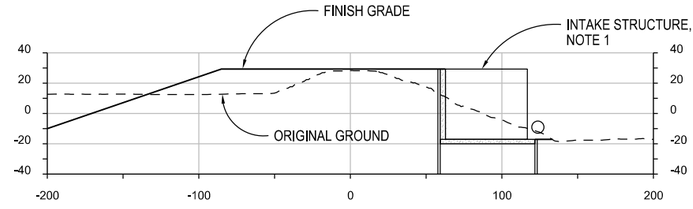
1"=50'



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 5

SECTION - STA 530+00

1"=50'



EXISTING HIGHWAY 160/LEVEE CENTERLINE AT INTAKE 5

SECTION - STA 540+00

1"=50'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: B CHELONIS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

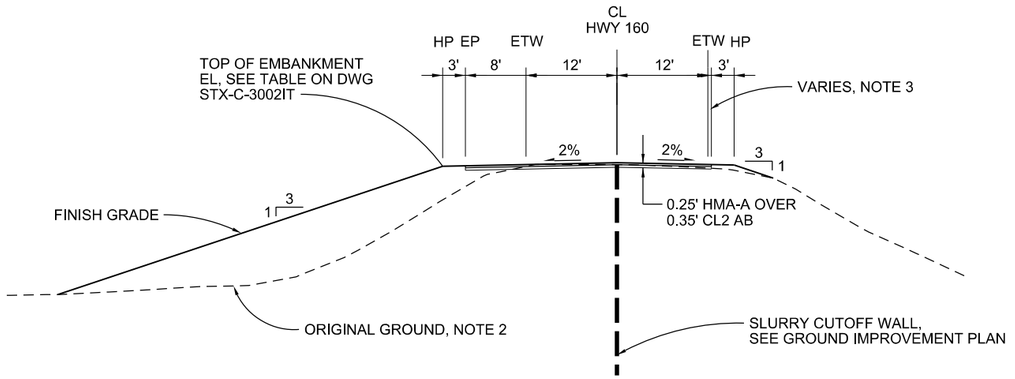
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE 5 - EXISTING LEVEE PROFILE AND CROSS SECTIONS W/ FINISH GRADE

PROJECT NO. W8X97000
SHEET NO. STX-C-2003IT
REV
SEQUENCE NO.

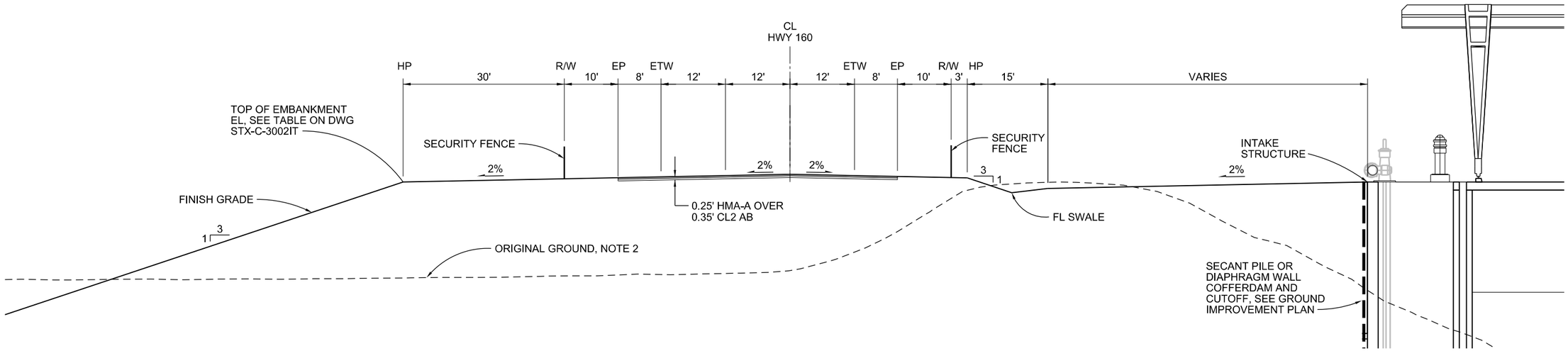
STX-C-2003IT_W8X97000.dgn

PLOT DATE:2021\12\07 PLOT TIME:10:46:50 AM



TYPICAL 2-LANE HWY 160 SECTION

1'=10'



TYPICAL 3-LANE HWY 160 SECTION

1'=10'

NOTES:

1. VERTICAL FLAT PLATE SCREEN STRUCTURE SHOWN; CYLINDRICAL TEE SCREEN STRUCTURE SIMILAR.
2. STRIPPING DEPTH OF 1' NOT SHOWN.
3. ADJUST WIDTH OF SHOULDER, UP TO 8' MAX, TO KEEP 3' CLEAR TO HINGE POINT. AVOID FILLING BELOW THE EXISTING TOP OF EMBANKMENT.

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
APPROVAL RECOMMENDED:
DRAWN: B CHELONIS
APPROVAL BY: P RYAN
CHECKED: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

HIGHWAY 160 TYPICAL SECTIONS AT INTAKE REALIGNMENTS

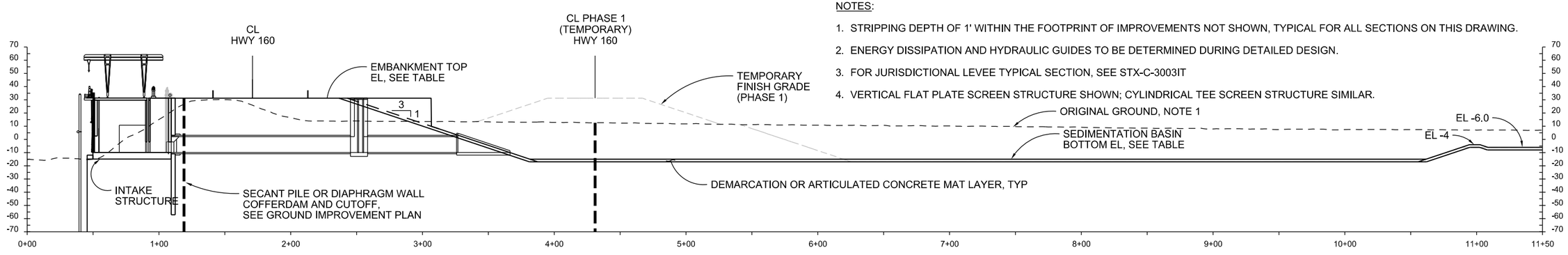
PROJECT NO.
SHEET NO. STX-C-3001IT
REV | SEQUENCE NO. X

STX-C-3001IT_W8X97000.dgn

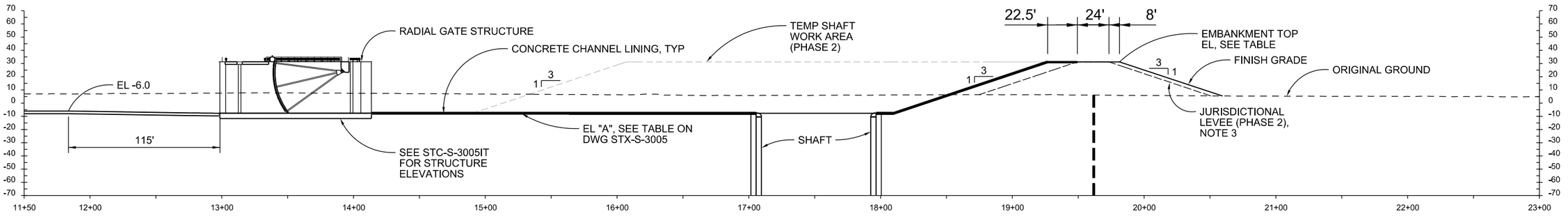
PLOT DATE:2021\12\07 PLOT TIME:1:08:11 PM

NOTES:

1. STRIPPING DEPTH OF 1' WITHIN THE FOOTPRINT OF IMPROVEMENTS NOT SHOWN, TYPICAL FOR ALL SECTIONS ON THIS DRAWING.
2. ENERGY DISSIPATION AND HYDRAULIC GUIDES TO BE DETERMINED DURING DETAILED DESIGN.
3. FOR JURISDICTIONAL LEVEE TYPICAL SECTION, SEE STX-C-3003IT
4. VERTICAL FLAT PLATE SCREEN STRUCTURE SHOWN; CYLINDRICAL TEE SCREEN STRUCTURE SIMILAR.



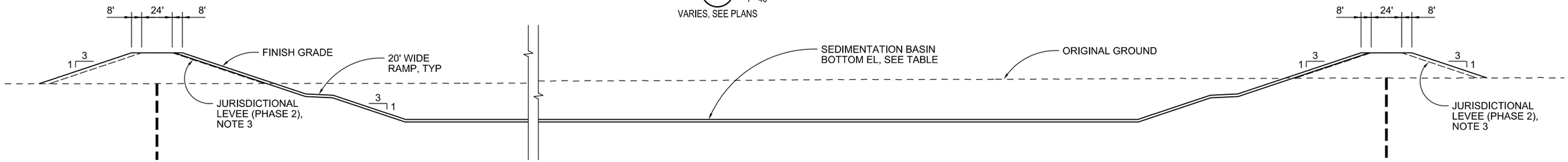
STA 0+00 TO 11+50



STA 11+50 TO 23+00

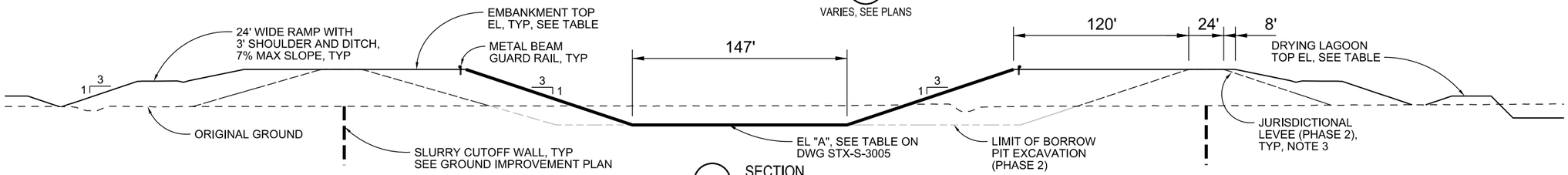
A SECTION 1"=40'

VARIES, SEE PLANS



B SECTION 1"=40'

VARIES, SEE PLANS



C SECTION 1"=40'

VARIES, SEE PLANS

SITE ELEVATION TABLE

INTAKE/ OPTION	EMBANKMENT TOP EL	SEDIMENTATION BASIN BOTTOM EL	DRYING LAGOON TOP EL
IT2 VERT	31.2	-15.0	11.5
IT3 VERT	30.3	-22.0	12.0
IT5 VERT	29.3	-19.0	11.0
IT2 TEE	31.2	-14.0	11.5
IT3 TEE	30.3	-18.0	11.0
IT5 TEE	29.3	-18.0	10.0

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

INTAKES

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: B CHELONIS
CHECKED: P RYAN
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

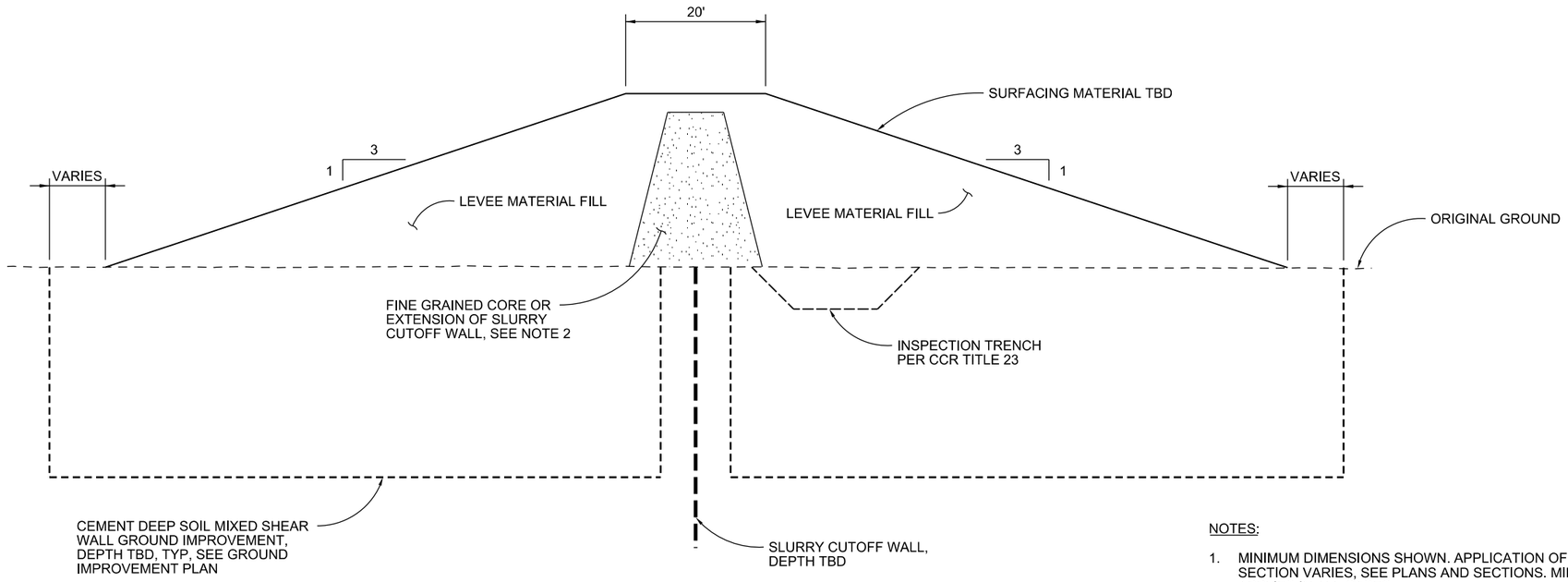
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

SITE SECTIONS

PROJECT NO.
SHEET NO. STX-C-3002IT
REV
SEQUENCE NO. X

STX-C-3002IT_W8X97000.dgn

PLOT DATE:2021\11\29 PLOT TIME:7:49:21 AM



TYPICAL MINIMUM JURISDICTIONAL LEVEE SECTION
NTS

NOTES:

1. MINIMUM DIMENSIONS SHOWN. APPLICATION OF INTAKE LEVEE SECTION VARIES, SEE PLANS AND SECTIONS. MINIMUM SECTION APPLIES IN ALL CASES.
2. LEVEE CORE, SLURRY WALL, AND FILL REQUIREMENTS TO BE DETERMINED DURING DESIGN PER GEOTECHNICAL CONDITIONS.
3. MINIMUM JURISDITIONAL LEVEE SECTION APPLICABLE TO ALL TEMPORARY AND PERMANENT LEVEES.

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
DRAWN B CHELONIS
CHECKED P RYAN
APPROVAL RECOMMENDED
APPROVAL BY

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

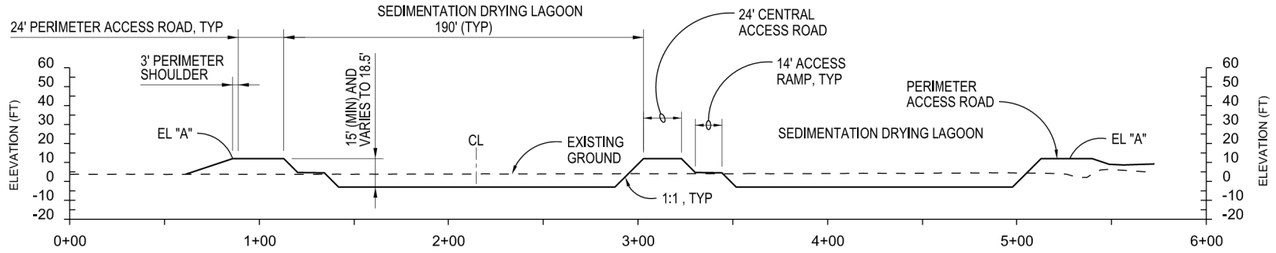
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

TYPICAL MINIMUM JURISDICTIONAL LEVEE SECTION

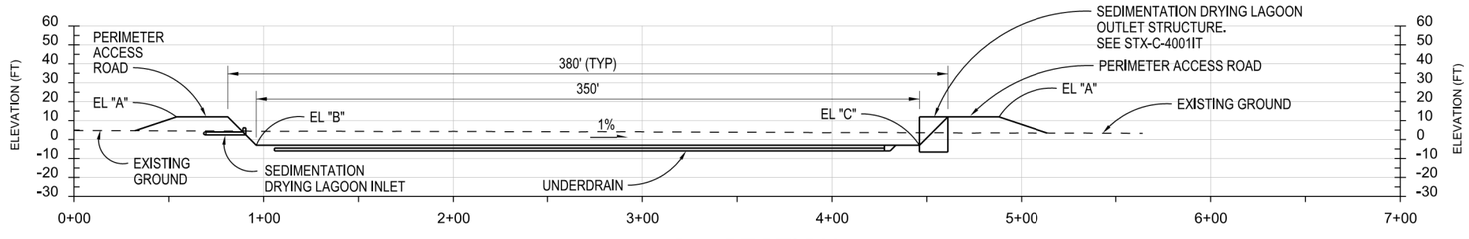
PROJECT NO. W8X97000
SHEET NO. STX-C-3003IT
REV
SEQUENCE NO. X

STX-C-3003IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:8:24:59 PM



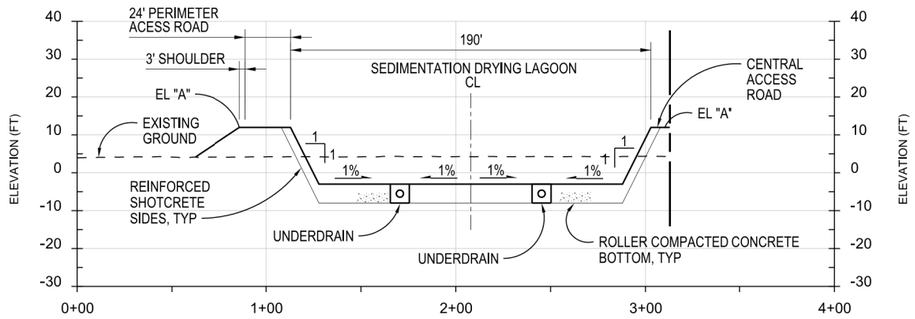
A SECTION
1"=40'
STX-C-1030IT



B SECTION
1"=40'
STX-C-1030IT

NOTES:

1. SEDIMENTATION DRYING LAGOON SECTIONS REPRESENT A TYPICAL SITE. ORIGINAL GROUND ELEVATIONS AND TOP OF EMBANKMENT (EL "A") ELEVATIONS VARY BY SITE. SEE TABLE FOR SPECIFIC SITE FINISH GRADE ELEVATIONS.



C SECTION
NTS
STX-C-1030IT

FINISH GRADE ELEVATION TABLE
FOR VERTICAL SCREEN OPTION

LOCATION	A	B	C
INTAKE 2	11.5	-3.5	-7.0
INTAKE 3	12.0	-3.0	-6.5
INTAKE 5	11.0	-4.0	-7.5

FINISH GRADE ELEVATION TABLE
FOR TEE SCREEN OPTION

LOCATION	A	B	C
INTAKE 2	11.5	-3.5	-7.0
INTAKE 3	11.0	-4.0	-7.5
INTAKE 5	10.0	-5.0	-8.5

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
APPROVAL RECOMMENDED:
DRAWN: D CORBETT
APPROVAL BY: P RYAN
CHECKED: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

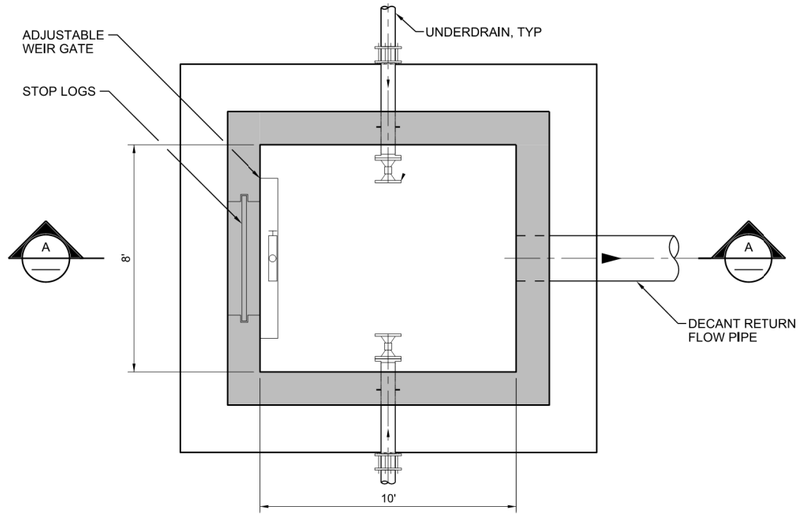
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

SEDIMENTATION DRYING LAGOON TYPICAL SECTIONS

PROJECT NO.
SHEET NO. STX-C-3030IT
REV | SEQUENCE NO. X

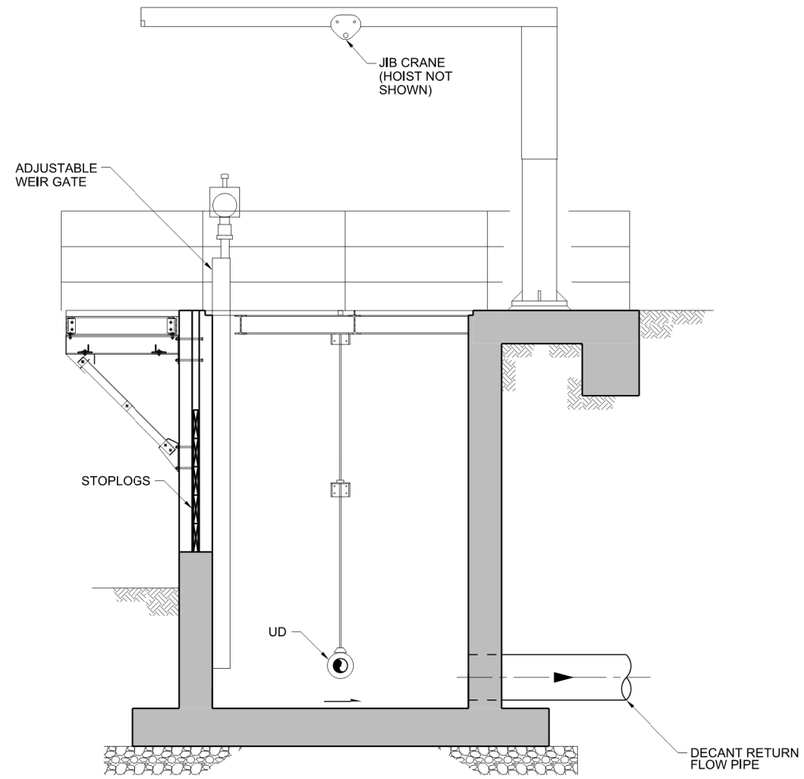
STX-C-3030IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:6:54:43 AM



SOLIDS LAGOON OUTLET STRUCTURE

PLAN
3/8"=1'-0"



A SECTION
3/8"=1'-0"

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED	J REYNOLDS
DRAWN	D CORBETT
CHECKED	P RYAN
APPROVAL RECOMMENDED	
APPROVAL BY	P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

SEDIMENTATION DRYING LAGOON
OUTLET STRUCTURE TYPICAL PLAN AND SECTION

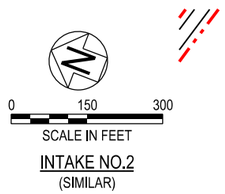
PROJECT NO.

SHEET NO.
STX-C-4001IT

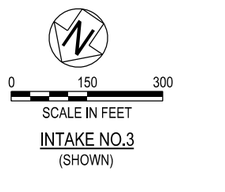
REV | SEQUENCE NO.
X

STX-C-4001IT_W8X97000.dgn

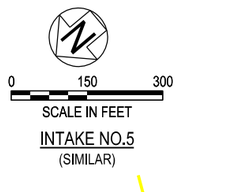
PLOT DATE:12/16/2021 PLOT TIME:6:54:08 AM



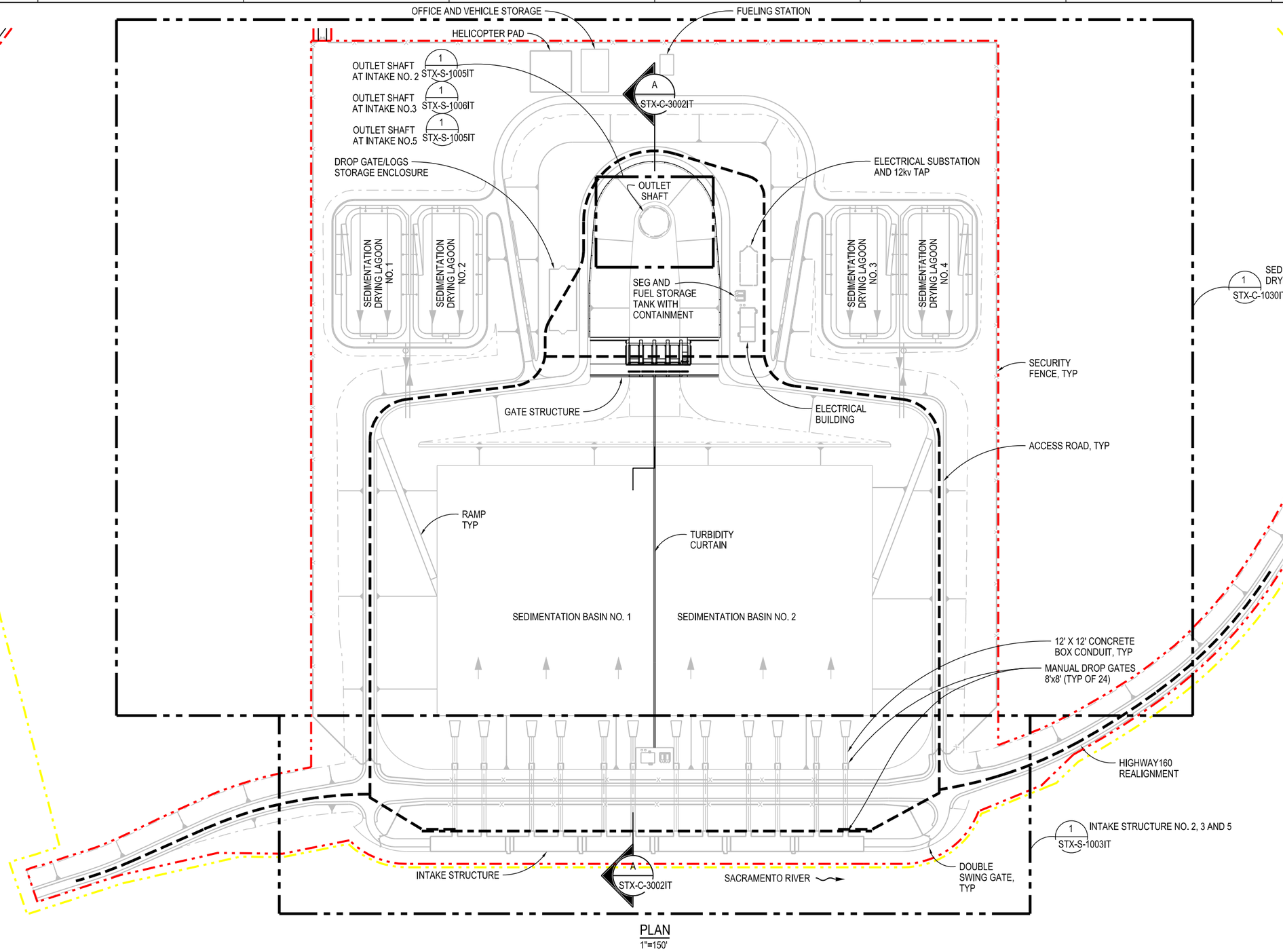
INTAKE NO.2
(SIMILAR)



INTAKE NO.3
(SHOWN)



INTAKE NO.5
(SIMILAR)



PLAN
1"=150'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
DRAWN D CORBETT
CHECKED
APPROVAL RECOMMENDED
APPROVAL BY P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

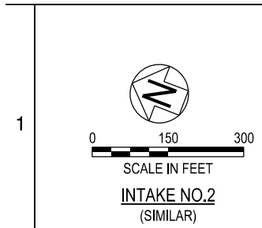
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

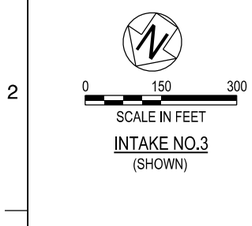
TYPICAL INTAKE FACILITY VERTICAL SCREEN GENERAL ARRANGEMENT & KEY PLAN

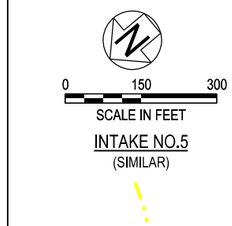
PROJECT NO. W8X97000
SHEET NO. STX-S-1001IT
REV
SEQUENCE NO. X

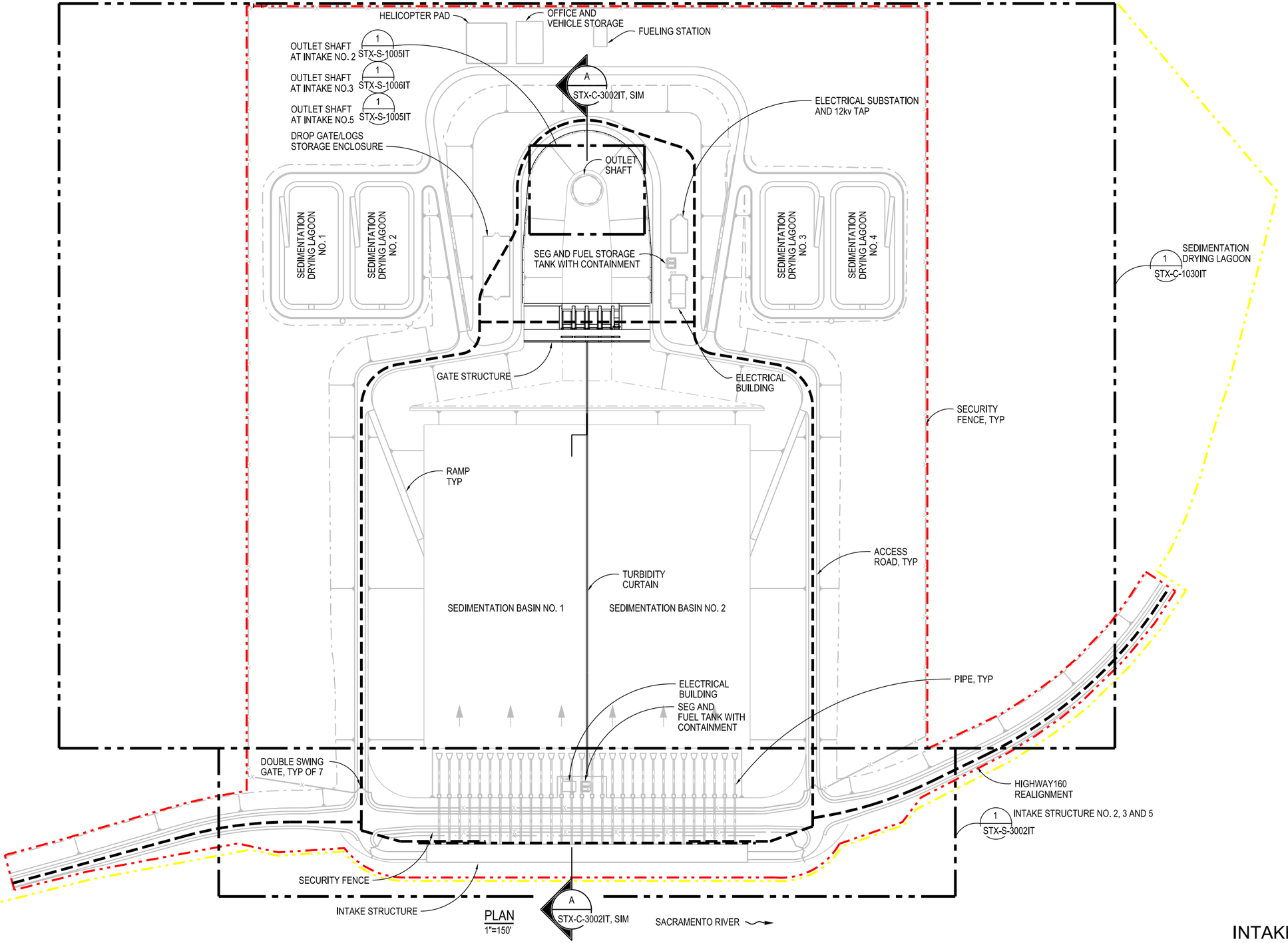
STX-S-1001IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:8:29:14 PM









PLAN
1"=150'

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
DRAWN
CHECKED J REYNOLDS
APPROVAL RECOMMENDED
APPROVAL BY P RYAN

DCA
DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

TYPICAL INTAKE FACILITY TEE SCREEN GENERAL ARRANGEMENT & KEY PLAN

PROJECT NO. W8X97000
SHEET NO. STX-S-1002IT
REV
SEQUENCE NO. X

STX-S-1002IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:8:34:19 PM

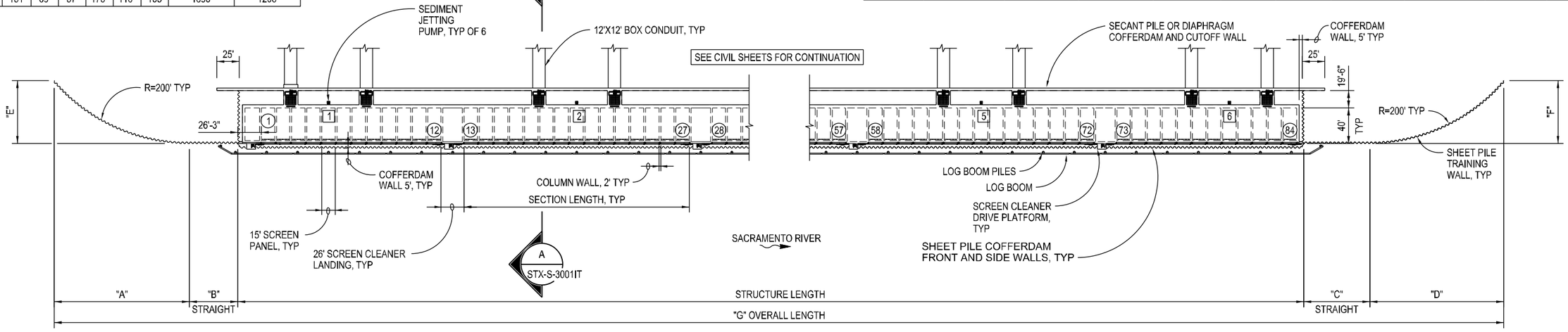
VERTICAL SCREEN TRAINING WALL DIMENSIONS								
	"A"	"B"	"C"	"D"	"E"	"F"	"G" (3000 CFS)	"G" (1500 CFS)
INTAKE 2	152	60	79	152	70	70	2024	1238
INTAKE 3	155	70	114	194	74	150	1807	1174
INTAKE 5	181	69	87	176	116	105	1890	1206

LEGEND

[#] INTAKE SECTION NO.

(#) SCREEN BAY NO.

SITE	DESIGN WSE (FT)	RIVER BOTTOM (FT)	SILL EL (FT)	SCREEN HEIGHT (FT)	NUMBER OF SECTIONS		NUMBER OF BAYS PER SECTIONS		STRUCTURE LENGTH (FT)	
					3000 (CFS)	1500 (CFS)	3000 (CFS)	1500 (CFS)	3000 (CFS)	1500 (CFS)
C-E-2	3.8	-13	-10	13.4	6	3	14	14	1581	795
C-E-3	3.72	-25	-17	17.5	6	3	11	11	1275	642
C-E-3 (ALT)	3.72	-25	-17	20	6	3	10	10	1138	591
C-E-5	3.61	-17	-13.5	16.7	6	3	12	12	1377	693



TYPICAL VERTICAL SCREEN INTAKE STRUCTURE

1 PLAN 1"=60'

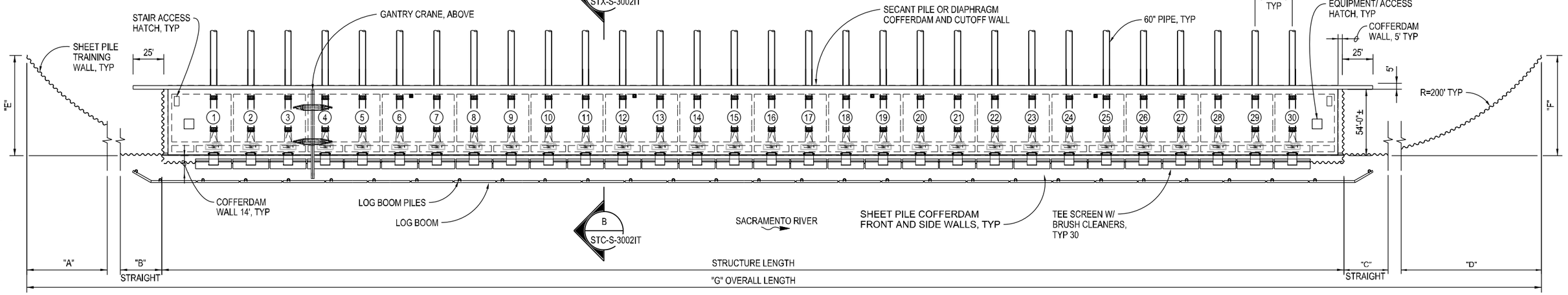
STX-S-3001IT

TEE SCREEN TRAINING WALL DIMENSIONS								
	"A"	"B"	"C"	"D"	"E"	"F"	"G" (3000 CFS)	"G" (1500 CFS)
INTAKE 2	161	83	83	161	81	81	1452	957
INTAKE 3	165	92	119	180	86	114	1520	1025
INTAKE 5	174	83	83	172	101	97	1478	981

LEGEND

(#) TEE SCREEN NO.

SITE	DESIGN WSE (FT)	RIVER BOTTOM (FT)	TEE SCREEN DIAMETER (FT)	TEE SCREEN BOTTOM (FT)	NUMBER VALVE CONFIGURATIONS		STRUCTURE LENGTH (FT)	
					3000 (CFS)	1500 (CFS)	3000 (CFS)	1500 (CFS)
C-E-2	3.80	-13	8	-9	30	15	964	469
C-E-3	3.72	-25	8	-13	30	15	964	469
C-E-5	3.61	-17	8	-13	30	15	964	469



TYPICAL TEE SCREEN INTAKE STRUCTURE

2 PLAN 1"=40'

STX-S-3002IT

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: P RYAN
DRAWN: J SMITH
CHECKED:
APPROVAL RECOMMENDED:
APPROVAL BY:

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

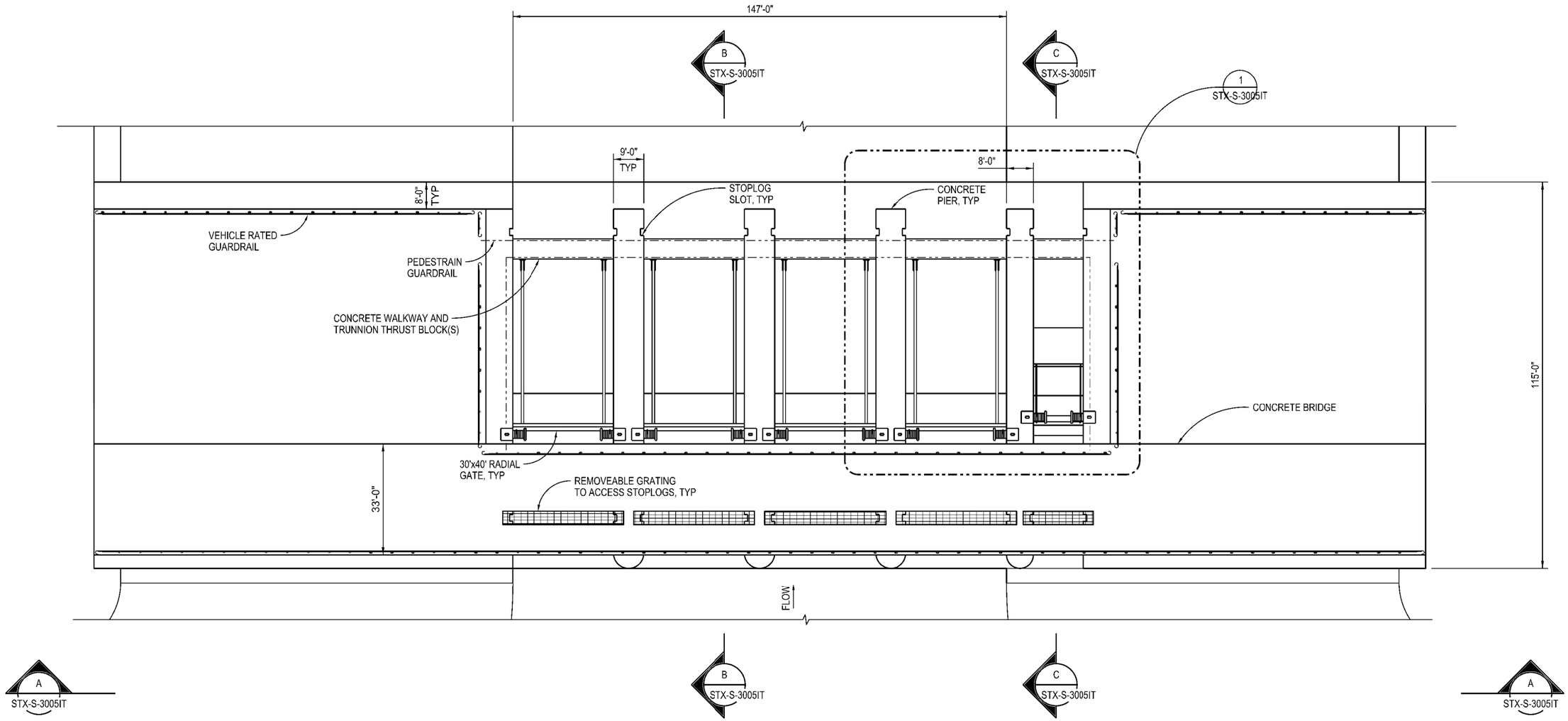
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES VERTICAL AND TEE SCREEN PLAN

PROJECT NO. W8X97000
SHEET NO. STX-S-1003IT
REV | SEQUENCE NO.

STX-S-1003IT_W8X97000.dgn

PLOT DATE:2021\12\09 PLOT TIME:12:20:29 PM



TYPICAL RADIAL GATE CONTROL STRUCTURE

PLAN

1/16"=1'-0"

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J.REYNOLDS
DRAWN: J.SMITH
CHECKED: B MEMEO
APPROVAL RECOMMENDED:
APPROVAL BY: P.RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

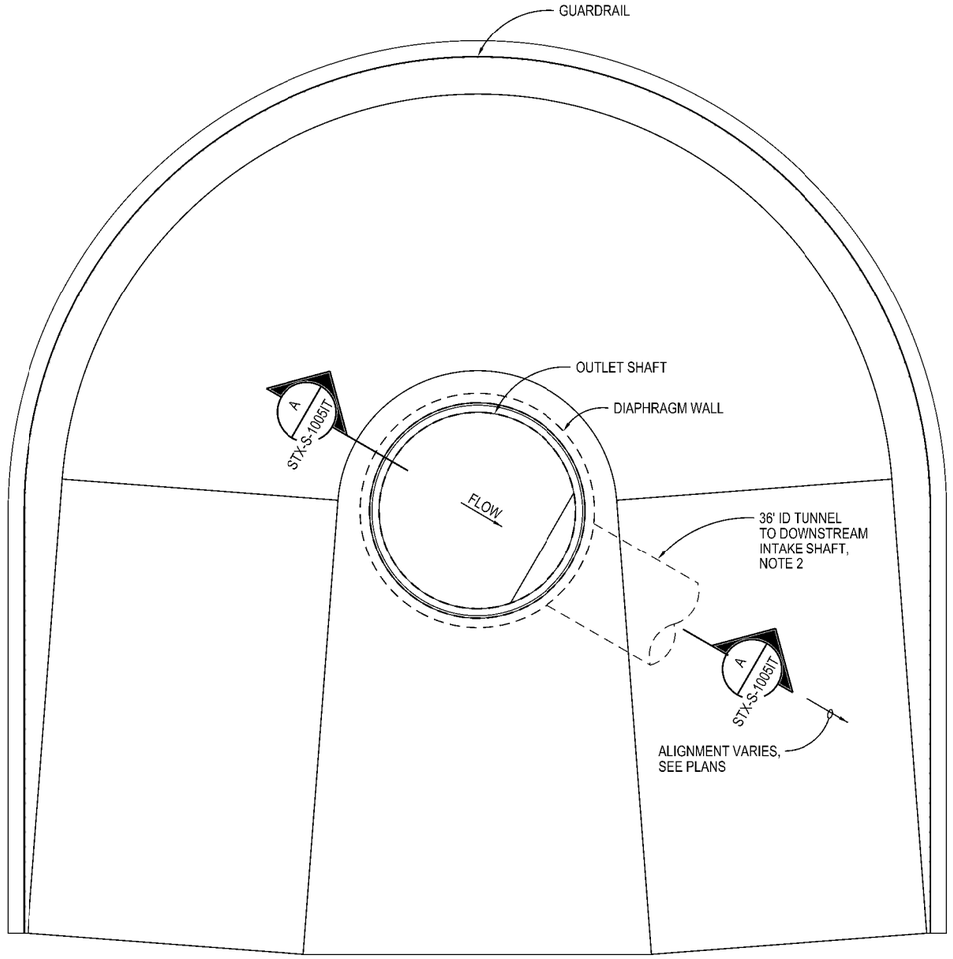
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES TYPICAL RADIAL GATE STRUCTURE PLAN

PROJECT NO. W8X97000
SHEET NO. STX-S-1004IT
REV. SEQUENCE NO.

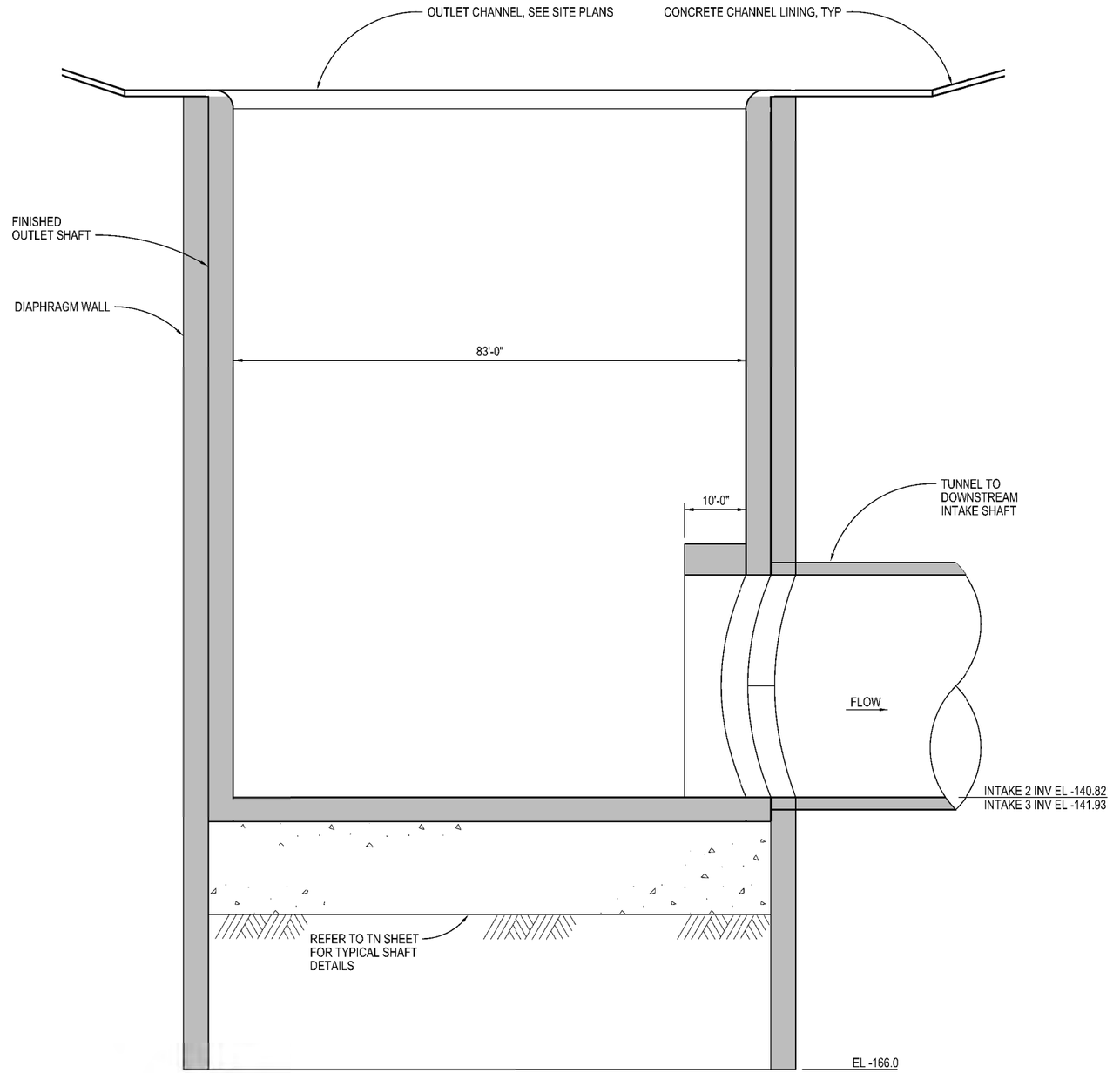
STX-S-1004IT_W8X97000.dgn

PLOT DATE:2021\11\19 PLOT TIME:4:06:39 PM



TYPICAL SINGLE TUNNEL CONNECTION OUTLET SHAFT

PLAN
1/32"=1'-0"



A SECTION
3/32"=1'-0"

NOTE:
1. ENERGY DISSIPATION AND HYDRAULIC GUIDES TO BE DETERMINED DURING DETAILED DESIGN.
2. 36 FOOT ID TUNNEL FOR 6,600 CFS CAPACITY. REFER TO TN DRAWINGS FOR SIZE AT OTHER ALTERNATIVE CAPACITIES

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: J SMITH
CHECKED: B MEMEO
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

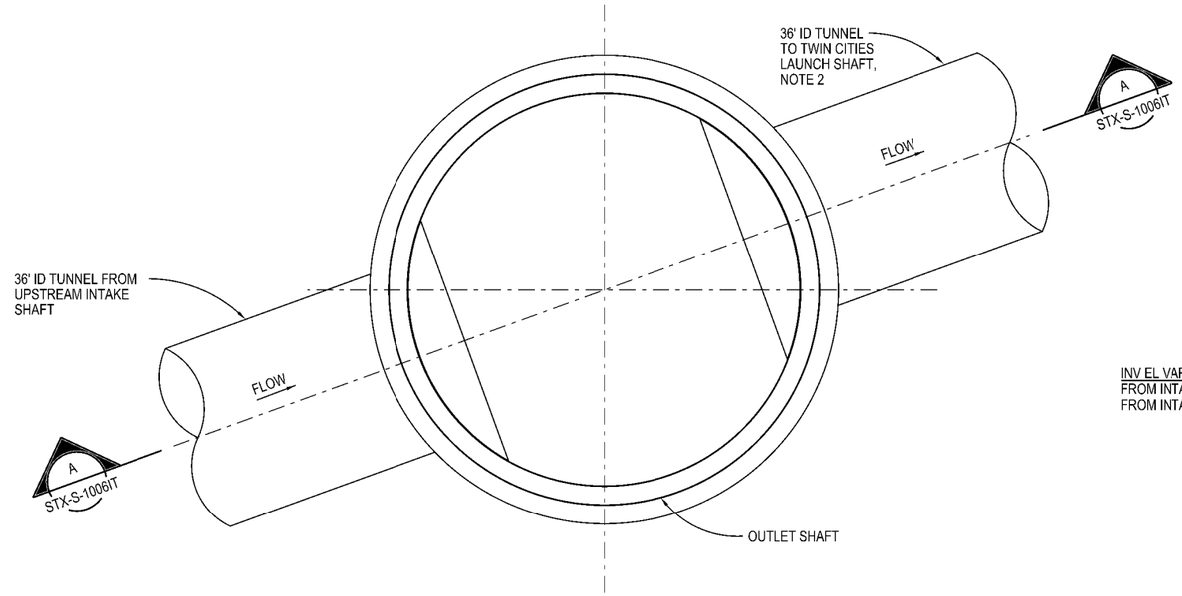
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

TYPICAL OUTLET STRUCTURE SINGLE TUNNEL CONNECTION - PLAN AND SECTION

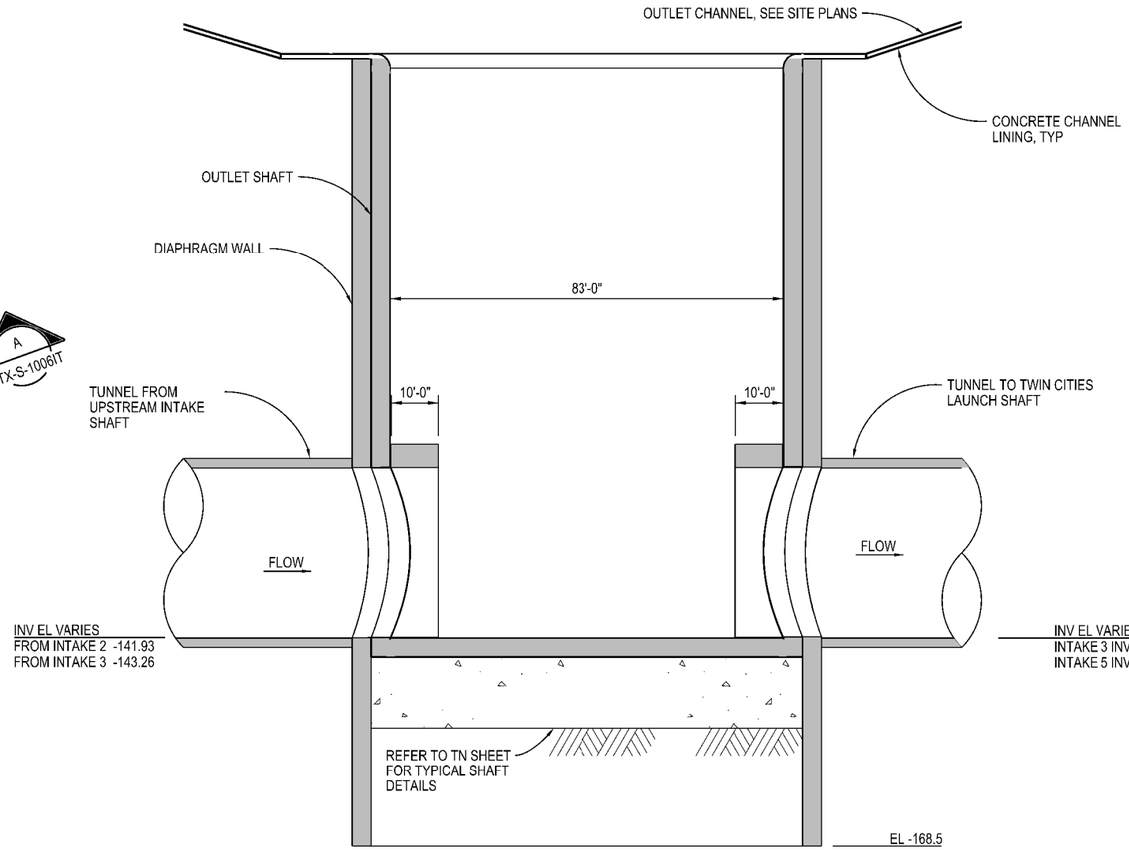
PROJECT NO. W8X97000
SHEET NO. STX-S-1005IT
REV | SEQUENCE NO. X

STX-S-1005IT_W8X97000.dgn

PLOT DATE:2021\11\19 PLOT TIME:4:08:25 PM



PLAN
1/16"=1'-0"



OUTLET SHAFT / JUNCTION STRUCTURE

A SECTION
1/16"=1'-0"

NOTE:
1. ENERGY DISSIPATION AND HYDRAULIC GUIDES TO BE DETERMINED DURING DETAILED DESIGN.
2. 36 FOOT ID TUNNEL FOR 6,000 CFS CAPACITY, REFER TO TN DRAWINGS FOR SIZE AT OTHER ALTERNATIVE CAPACITIES

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J.REYNOLDS
DRAWN: J.SMITH
CHECKED: B MEMEO
APPROVAL RECOMMENDED:
APPROVAL BY: P.RYAN

DCA DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

TYPICAL OUTLET STRUCTURE DUAL OUTLET CONNECTION - PLAN AND SECTION

PROJECT NO. W8X97000
SHEET NO. STX-S-1006IT
REV. X
SEQUENCE NO.

STX-S-1006IT_W8X97000.dgn

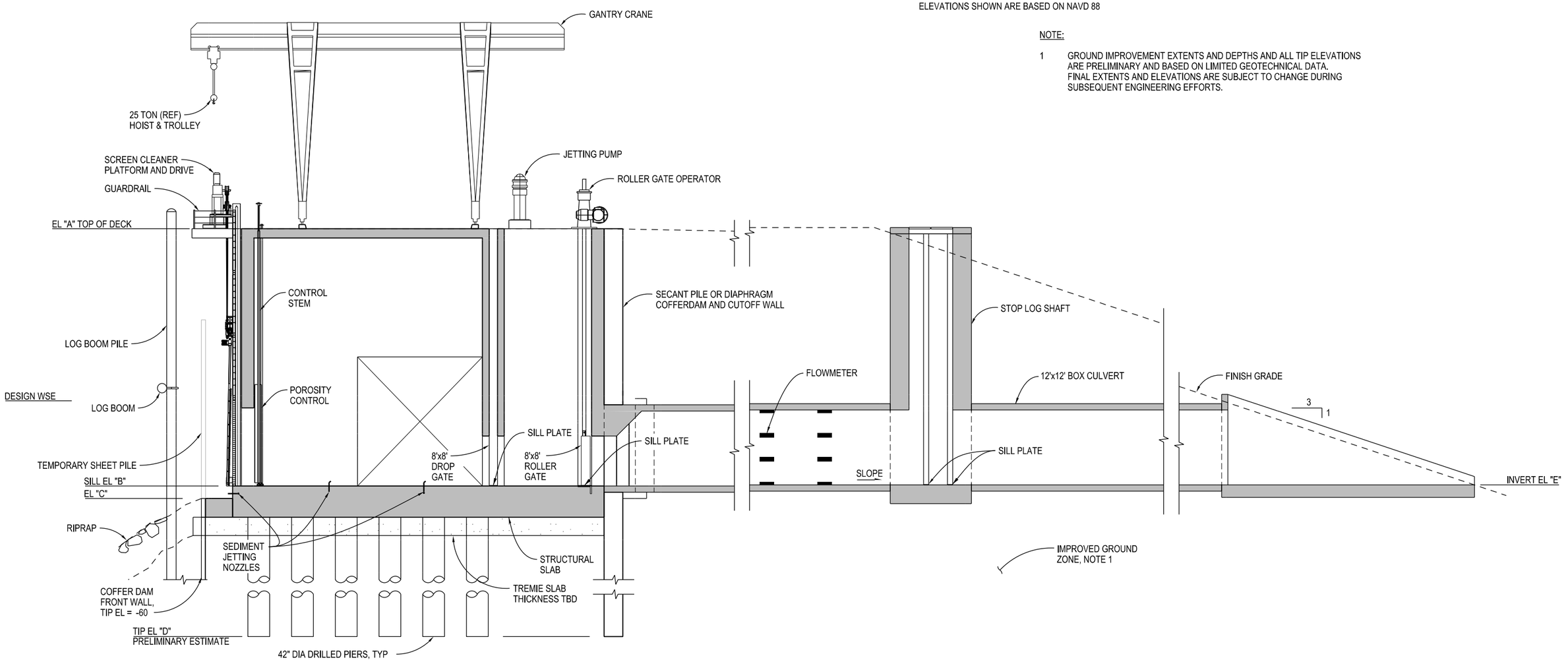
PLOT DATE:2021\11\19 PLOT TIME:4:09:39 PM

SCHEDULE								
INTAKE NO.	200-YR FLOOD WSE W/ CC + SLR	DESIGN WSE	AVG RIVER BOT EL	A	B	C	D	E
2	28.2	3.8	-13	31.2	-10	-12	-100	-11
3	27.3	3.72	-25	30.3	-17	-19	-100	-18
5	26.3	3.61	-17	29.3	-13.5	-15.5	-100	-14.5

ELEVATIONS SHOWN ARE BASED ON NAVD 88

NOTE:

1 GROUND IMPROVEMENT EXTENTS AND DEPTHS AND ALL TIP ELEVATIONS ARE PRELIMINARY AND BASED ON LIMITED GEOTECHNICAL DATA. FINAL EXTENTS AND ELEVATIONS ARE SUBJECT TO CHANGE DURING SUBSEQUENT ENGINEERING EFFORTS.



A SECTION
1/8"=1'-0"
STX-S-1001IT

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED J REYNOLDS
DRAWN J SMITH
CHECKED B MEMEO
APPROVAL RECOMMENDED
APPROVAL BY P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES VERTICAL SCREENS SECTION

PROJECT NO. W8X97000
SHEET NO. STX-S-3001IT
REV
SEQUENCE NO. X

STX-S-3001IT_W8X97000.dgn

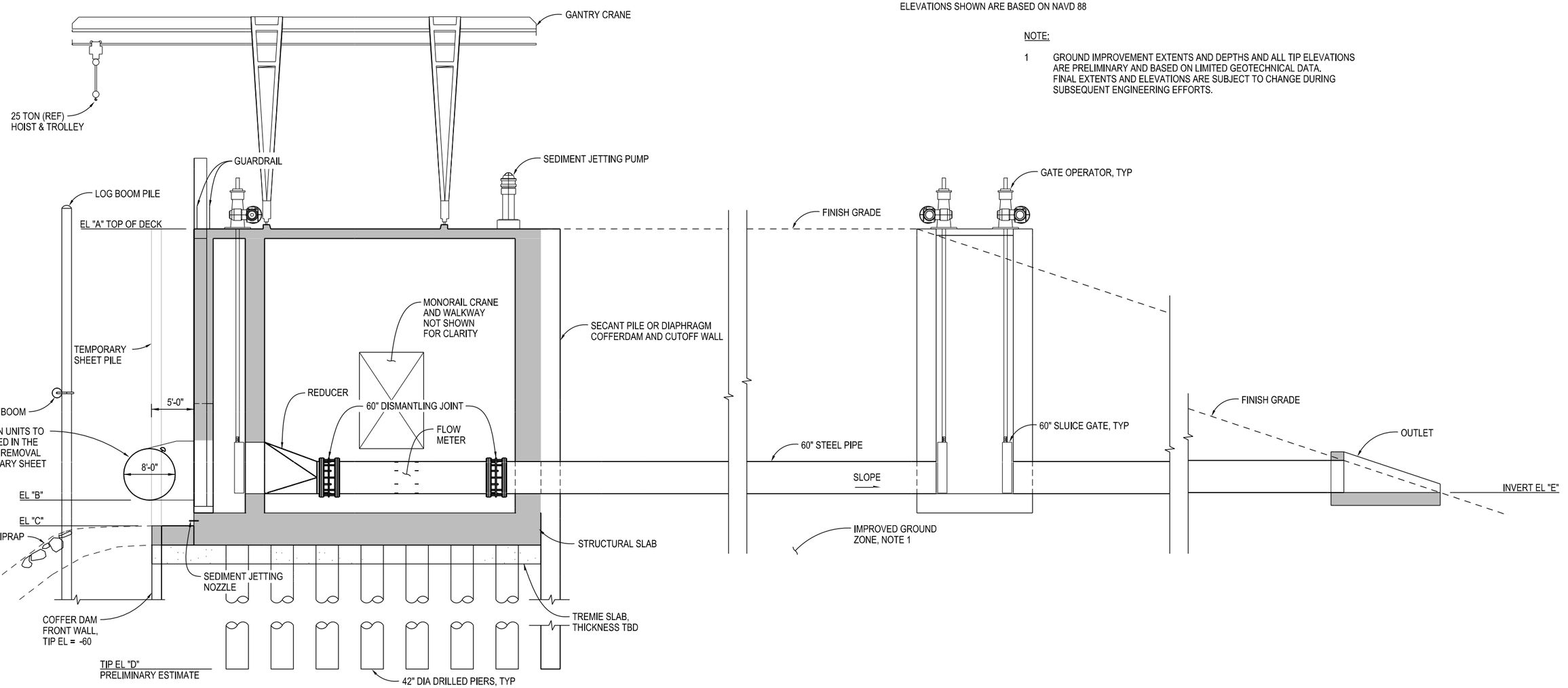
PLOT DATE:2021\11\29 PLOT TIME:7:53:25 AM

SCHEDULE								
INTAKE NO.	200-YR FLOOD WSE W/ CC + SLR	DESIGN WSE	AVG RIVER BOT EL	A	B	C	D	E
2	28.2	3.8	-13	31.2	-9	-13	-100	-10
3	27.3	3.72	-25	30.3	-13	-17.0	-100	-14
5	26.3	3.61	-17	29.3	-13	-17.0	-100	-14

ELEVATIONS SHOWN ARE BASED ON NAVD 88

NOTE:

1 GROUND IMPROVEMENT EXTENTS AND DEPTHS AND ALL TIP ELEVATIONS ARE PRELIMINARY AND BASED ON LIMITED GEOTECHNICAL DATA. FINAL EXTENTS AND ELEVATIONS ARE SUBJECT TO CHANGE DURING SUBSEQUENT ENGINEERING EFFORTS.



B SECTION
1/8"=1'-0"
STX-S-1001IT

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED J REYNOLDS
DRAWN J SMITH
CHECKED B MEMEO
APPROVAL RECOMMENDED
APPROVAL BY P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

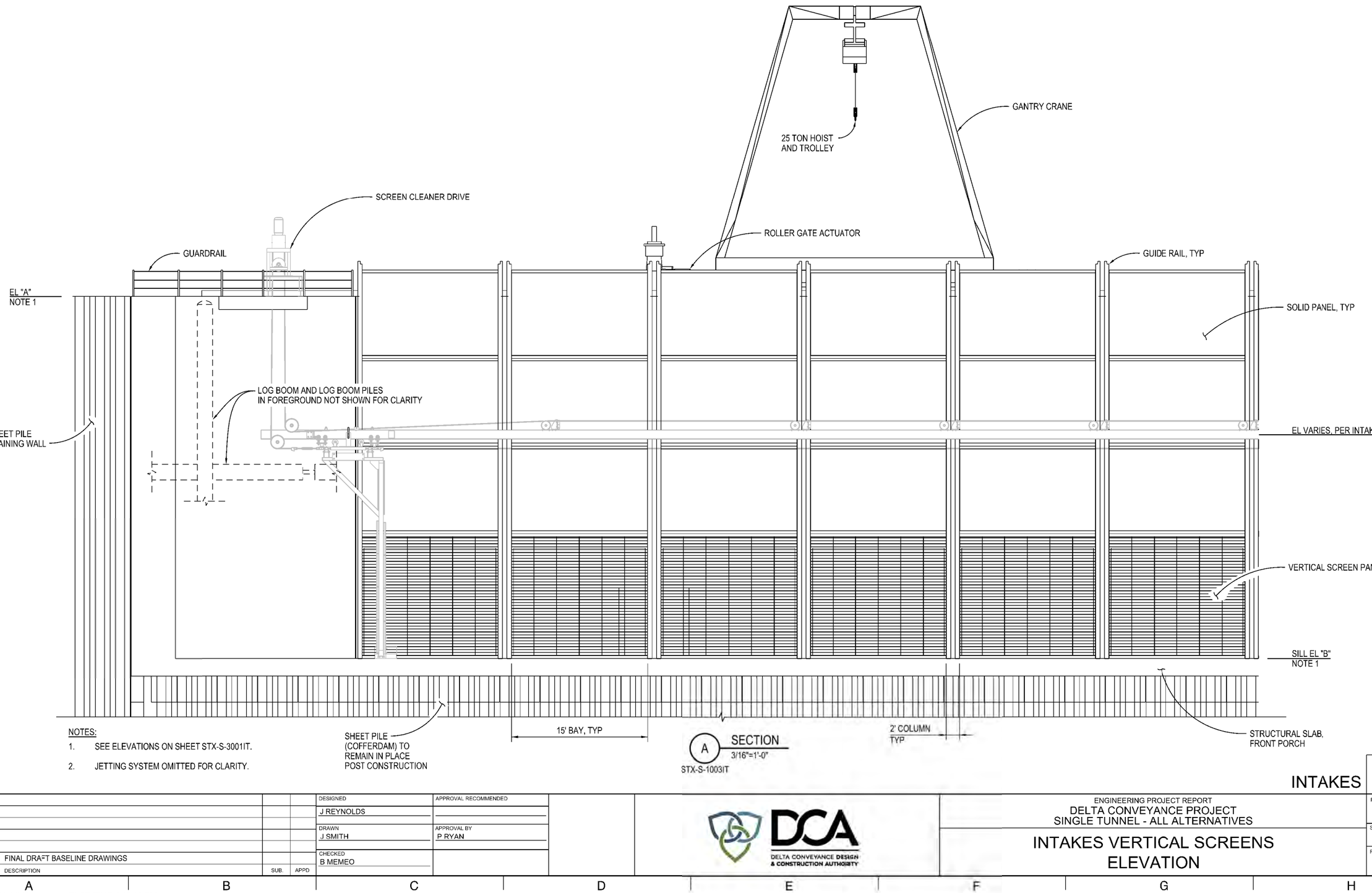
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES TEE SCREENS
SECTION

PROJECT NO. W8X97000
SHEET NO. STX-S-3002IT
REV
SEQUENCE NO. X

STX-S-3002IT_W8X97000.dgn

PLOT DATE:2021\12\08 PLOT TIME:8:39:55 PM



NOTES:

1. SEE ELEVATIONS ON SHEET STX-S-3001IT.
2. JETTING SYSTEM OMITTED FOR CLARITY.

A SECTION
3/16"=1'-0"
STX-S-1003IT

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: J SMITH
CHECKED: B MEMEO
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

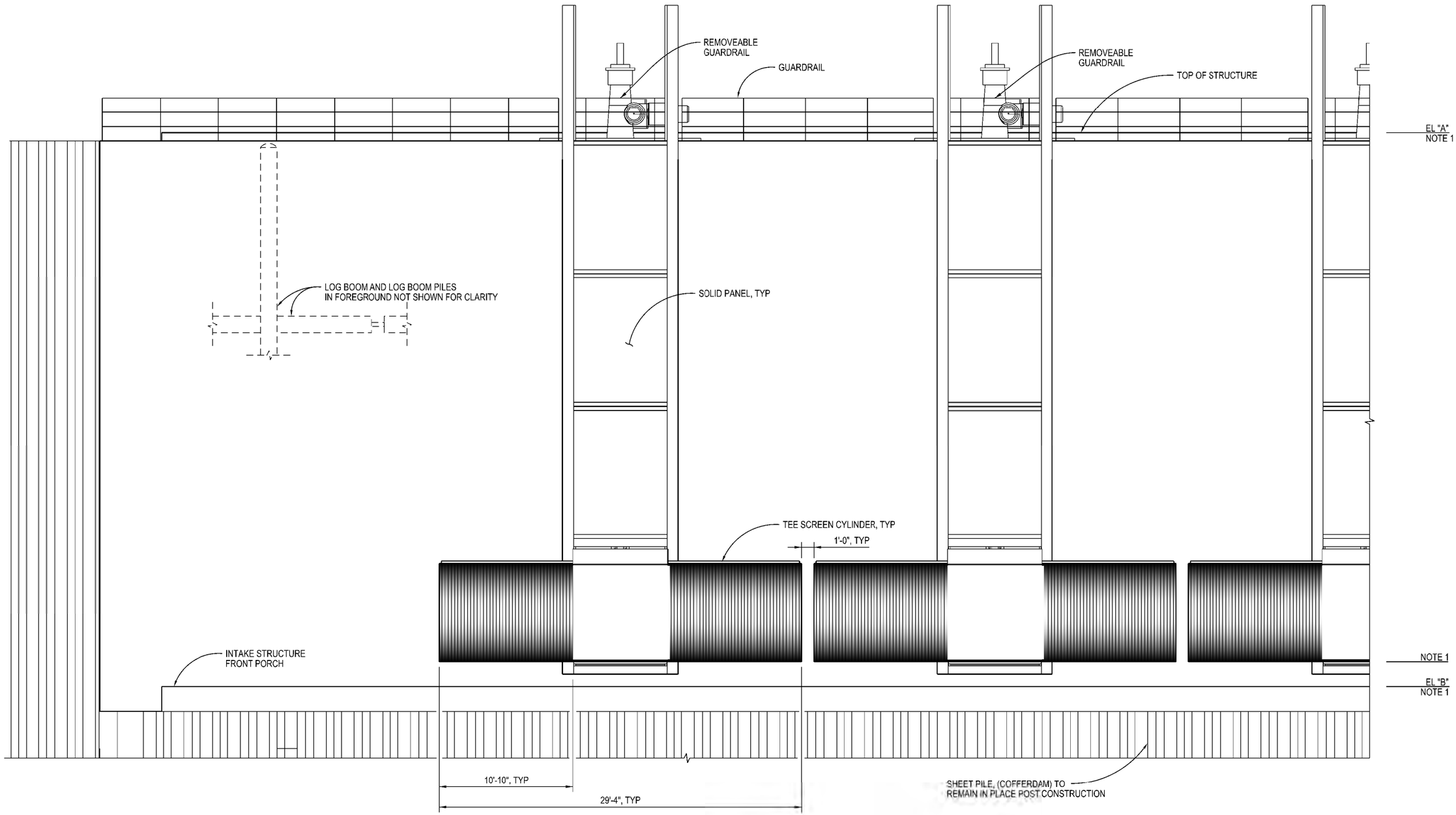
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES VERTICAL SCREENS
ELEVATION

PROJECT NO. W8X97000
SHEET NO. STX-S-3003IT
REV | SEQUENCE NO.

STX-S-3003IT_W8X97000.dgn

PLOT DATE:2021\11\19 PLOT TIME:4:13:18 PM



NOTES:

1. SEE ELEVATIONS ON SHEET STX-S-3002IT.
2. JETTING SYSTEM OMITTED FOR CLARITY.

A ELEVATION
1/4"=1'-0"
STX-S-1003

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: J SMITH
CHECKED: B MEMEO
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DCA DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

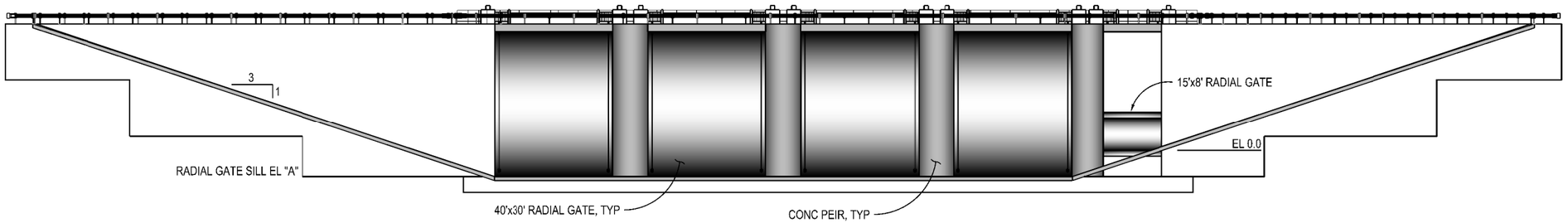
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES TEE SCREENS
ELEVATION

PROJECT NO. W8X97000
SHEET NO. STX-S-3004IT
REV | SEQUENCE NO.

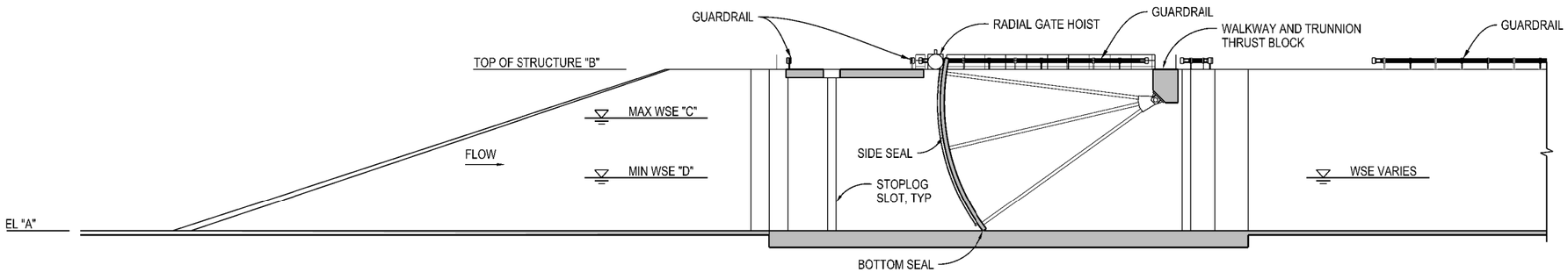
STX-S-3004IT_W8X97000.dgn

PLOT DATE:2021\11\19 PLOT TIME:4:15:00 PM



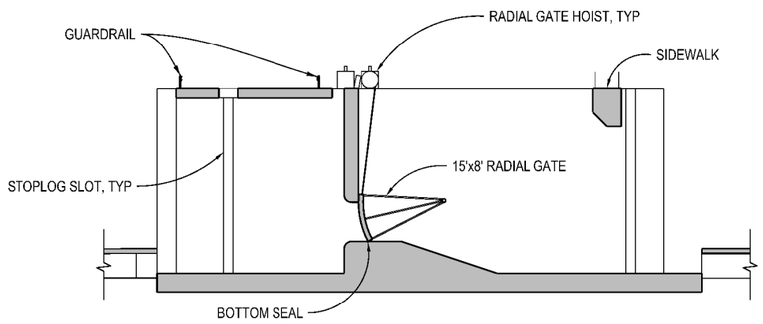
A SECTION
1/16"=1'-0"
STX-S-1001IT

LOCATION	A	B	C	D
INTAKE 2	-8.7	31.2	26.7	2.3
INTAKE 3	-8.8	30.3	25.8	2.2
INTAKE 5	-9.0	29.3	24.8	2.0

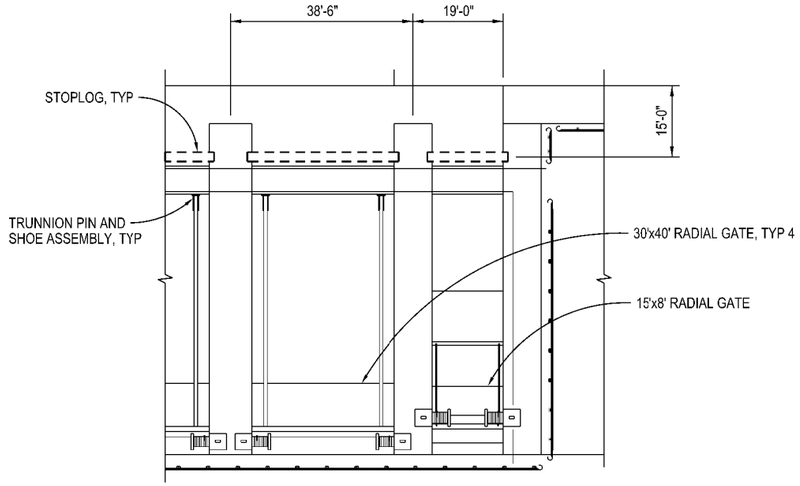


B SECTION
1/16"=1'-0"
STX-S-1001IT

NOTE:
1. ENERGY DISSIPATION AND HYDRAULIC GUIDES TO BE DETERMINED DURING DETAILED DESIGN.



C SECTION
1/16"=1'-0"
STX-S-1001IT



1 DETAIL
1/16"=1'-0"
STX-S-1001IT

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: J SMITH
CHECKED: B MEMEO
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

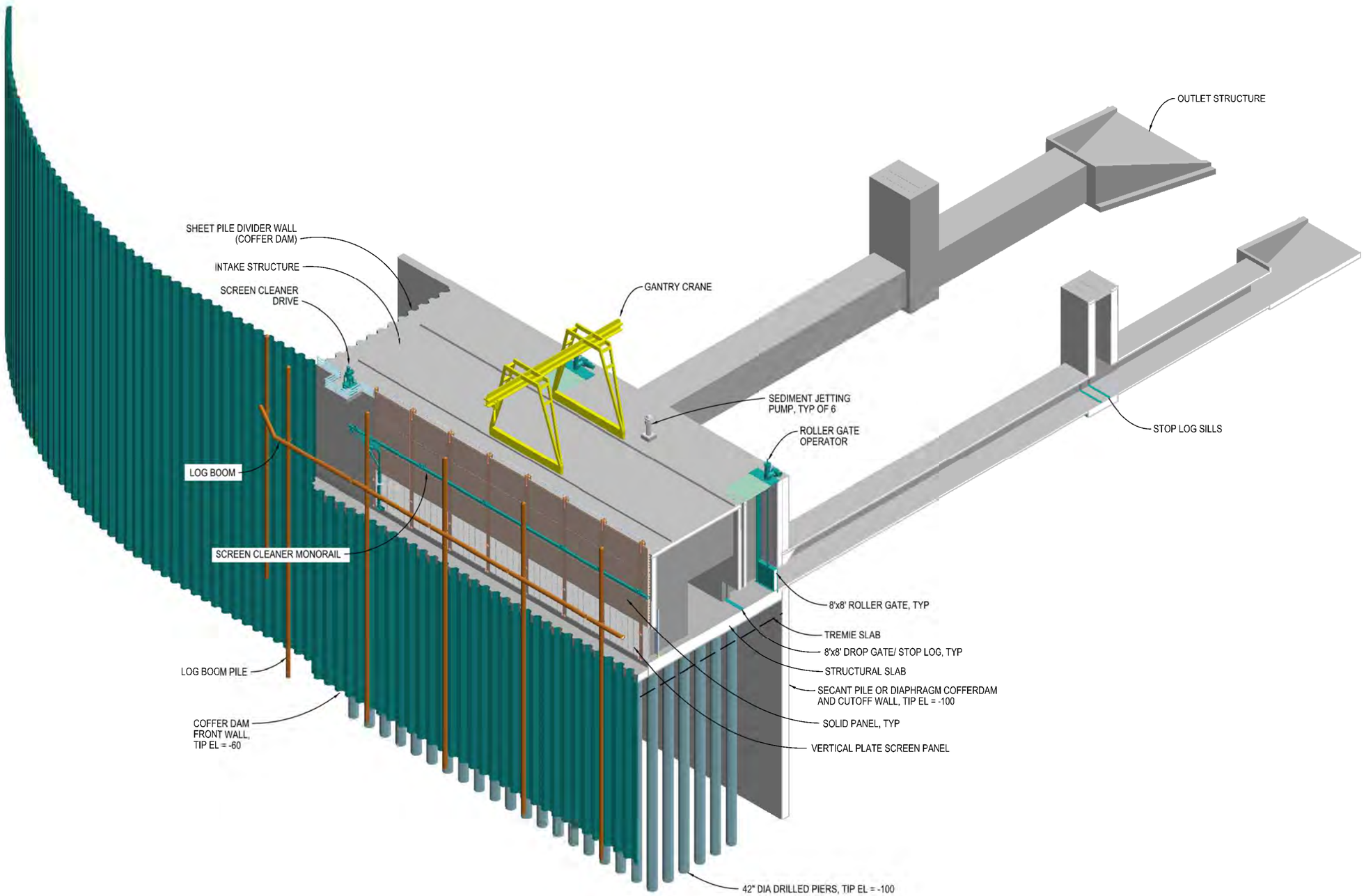
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES TYPICAL RADIAL GATE STRUCTURE SECTIONS AND DETAIL

PROJECT NO. W8X97000
SHEET NO. STX-S-3005IT
REV | SEQUENCE NO.

STX-S-3005IT_W8X97000.dgn

PLOT DATE:2021\11\19 PLOT TIME:4:17:15 PM



INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: J SMITH
CHECKED: B MEMEO
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DCA
DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES VERTICAL SCREEN ISOMETRIC

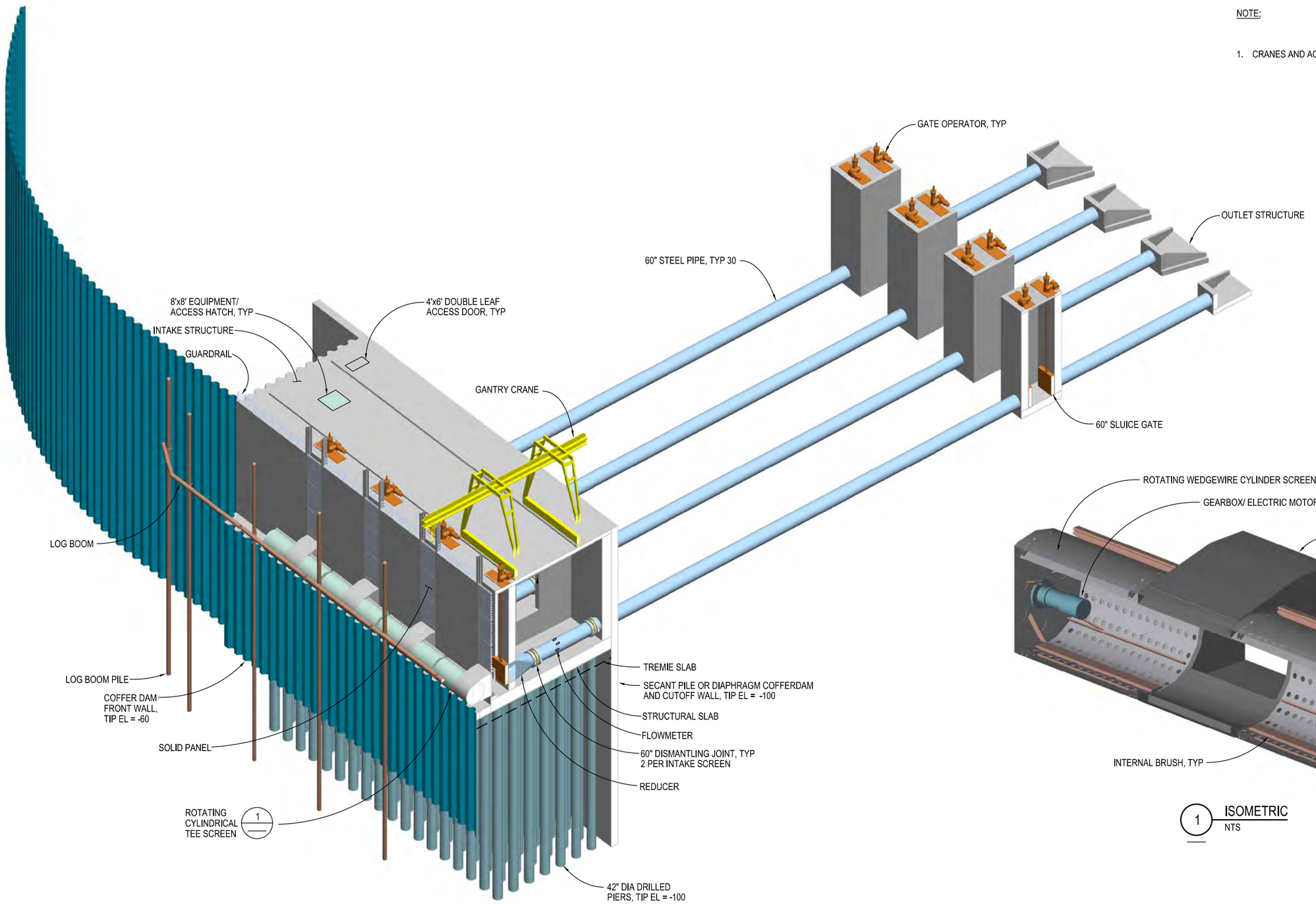
PROJECT NO.: W8X97000
SHEET NO.: STX-S-9001IT
REV: X
SEQUENCE NO.:

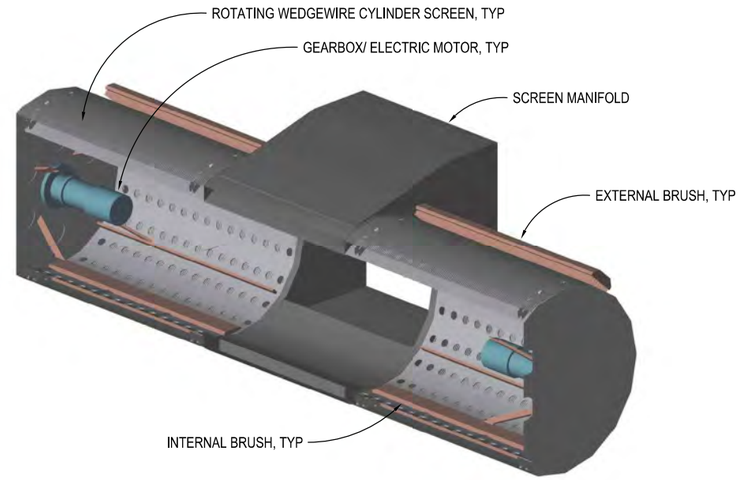
STX-S-9001IT_W8X97000.dgn

PLOT DATE:2021\11\19 PLOT TIME:4:18:43 PM

NOTE:

1. CRANES AND ACCESS WALKWAYS/ STAIRS NOT SHOWN FOR CLARITY.





1 ISOMETRIC
NTS

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: J SMITH
CHECKED: B MEMEO
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES TEE SCREEN ISOMETRIC

PROJECT NO. W8X97000
SHEET NO. STX-S-9002IT
REV
SEQUENCE NO. X

STX-S-9002IT_W8X97000.dgn

PLOT DATE:2021\11\17 PLOT TIME:5:23:51 AM

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
APPROVAL RECOMMENDED:
DRAWN: J SMITH
APPROVAL BY: P RYAN
CHECKED: B MEMEO

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES TYPICAL CANAL AND GATE STRUCTURE ISOMETRIC

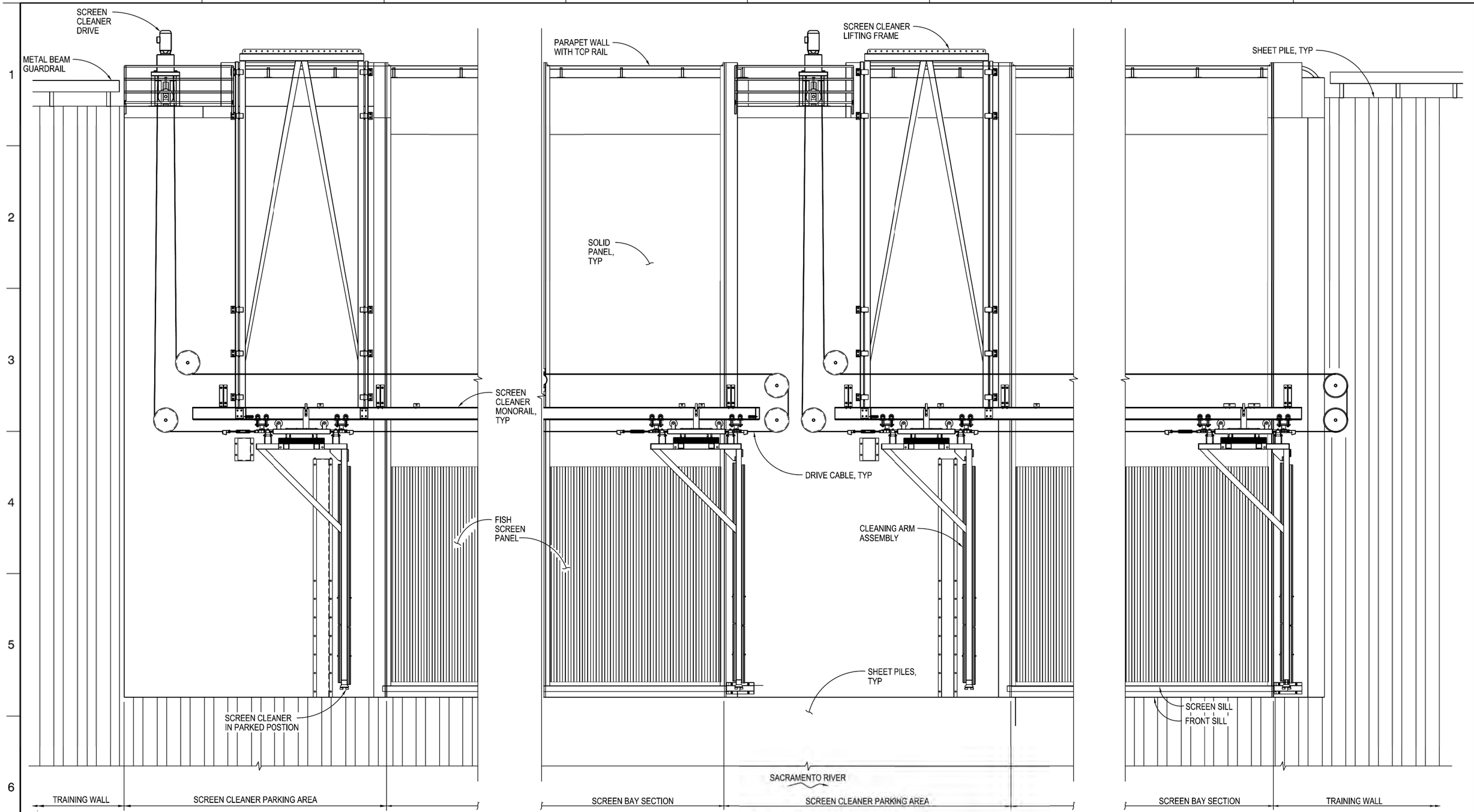
INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

PROJECT NO. W8X97000
SHEET NO. STX-S-9003IT
REV
SEQUENCE NO. X

STX-S-9003IT_W8X97000.dgn

PLOT DATE:12/16/2021 PLOT TIME:12:15:35 PM



ELEVATION
NTS

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: JSMITH
CHECKED: B MEMEO
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DCA
DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

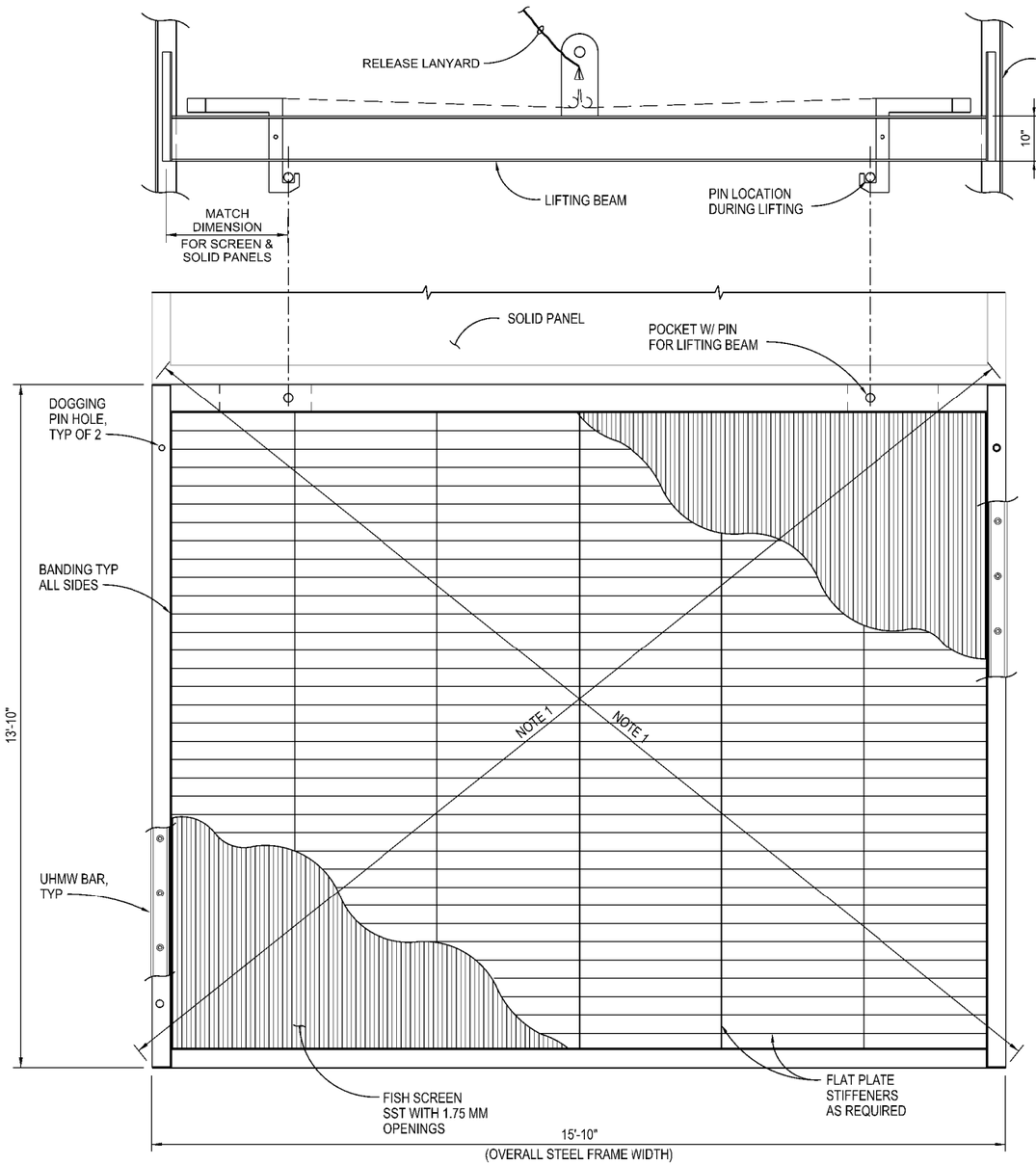
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE VERTICAL SCREEN ELEVATION

PROJECT NO. W8X97000
SHEET NO. STX-M-3001IT
REV
SEQUENCE NO. X

STX-M-3001IT_W8X97000.dgn

PLOT DATE:2021\11\19 PLOT TIME:4:22:13 PM



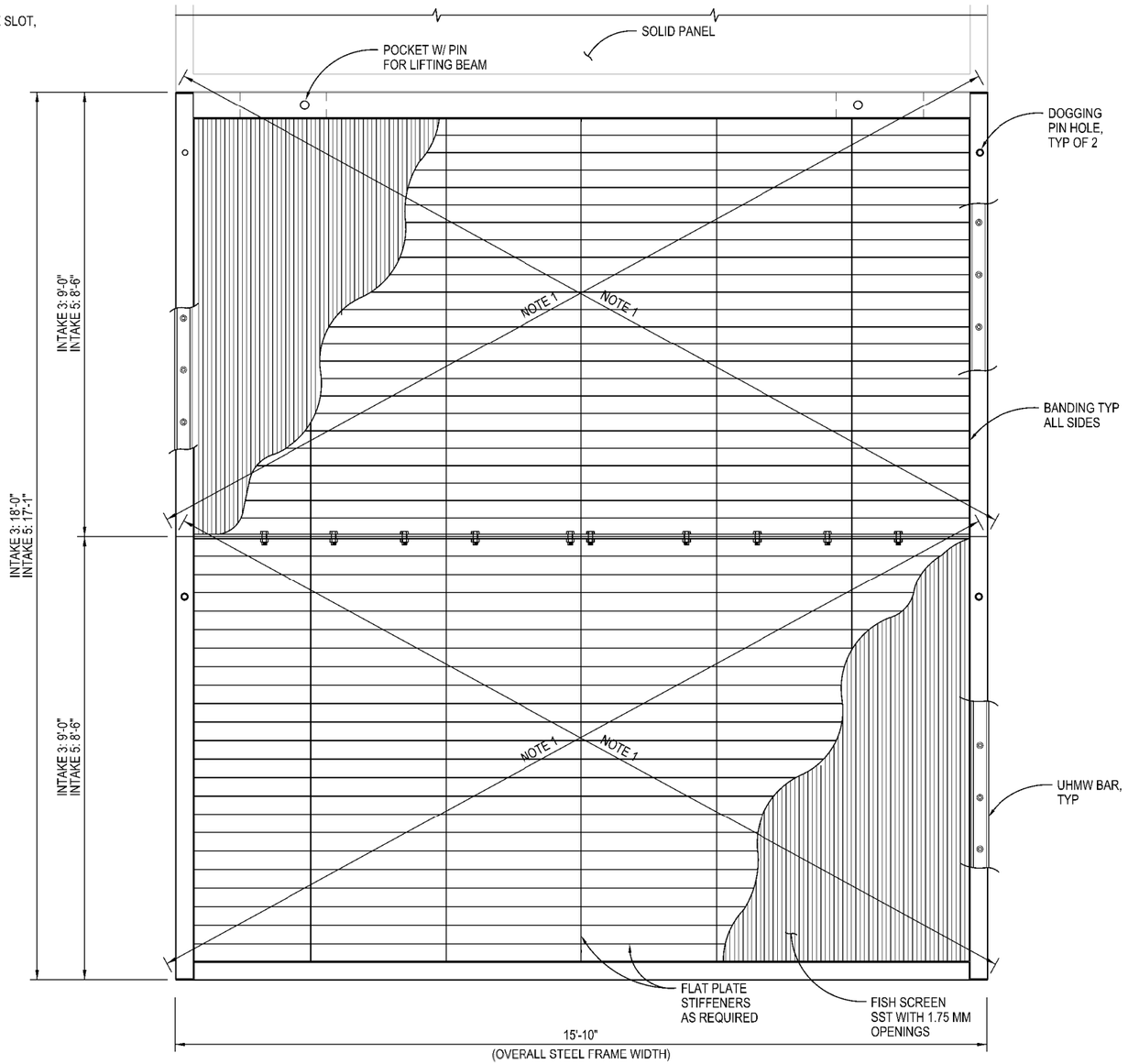
NOTES:

1. DIAGONAL DIMENSIONS OF ALL PANELS SHALL BE EQUAL. ALLOWABLE TOLERANCE IS +/- 1/8".
2. PROVIDE 15 SPARE FISH SCREEN PANELS PER INTAKE.

INTAKE NO. 2

ELEVATION

3/4"=1'-0"



INTAKE NO. 3 & 5

ELEVATION

3/4"=1'-0"

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

INTAKES

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
DRAWN: J SMITH
CHECKED: B MEMEO
APPROVAL RECOMMENDED:
APPROVAL BY: P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

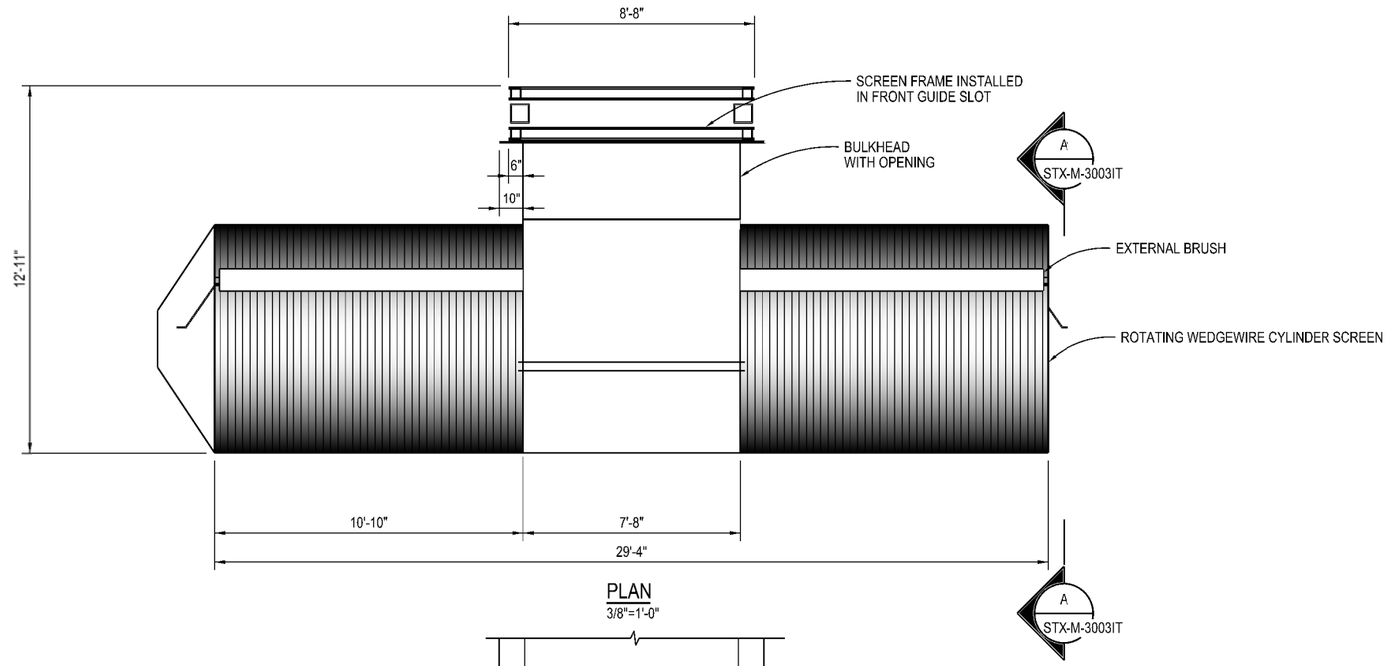
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKE VERTICAL SCREEN PANEL ELEVATION

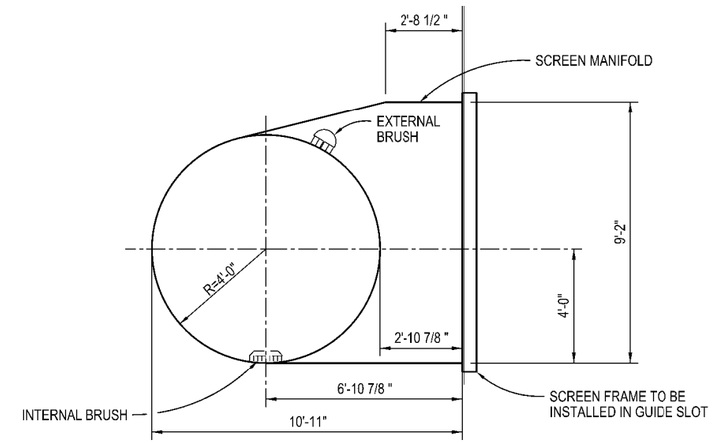
PROJECT NO. W8X97000
SHEET NO. STX-M-3002IT
REV
SEQUENCE NO. X

STX-M-3002IT_W8X97000.dgn

PLOT DATE:2021\11\19 PLOT TIME:4:24:13 PM

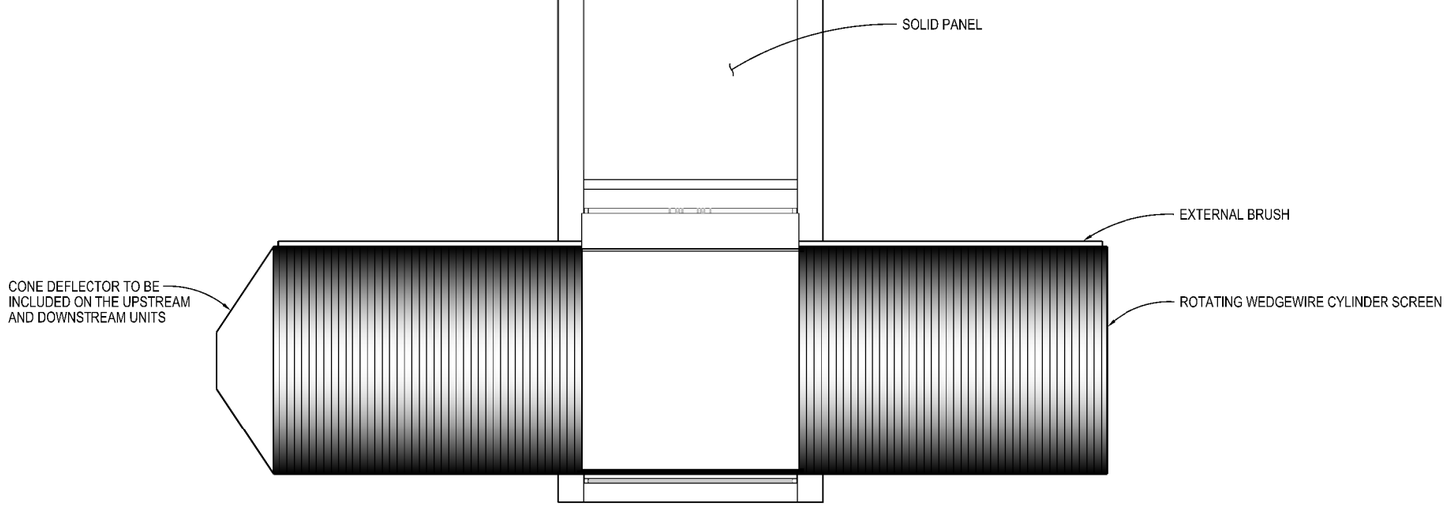


PLAN
3/8"=1'-0"



A SECTION
3/8"=1'-0"

NOTE: SCREEN MANIFOLD DIMENSIONS ARE PRILIMINARY,
FINAL DIMENSIONS TO BE DEVELOPED DURING DESIGN PHASE.



ELEVATION
3/8"=1'-0"

INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED: J REYNOLDS
APPROVAL RECOMMENDED:
DRAWN: J SMITH
APPROVAL BY: P RYAN
CHECKED: B MEMEO

DCA
DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

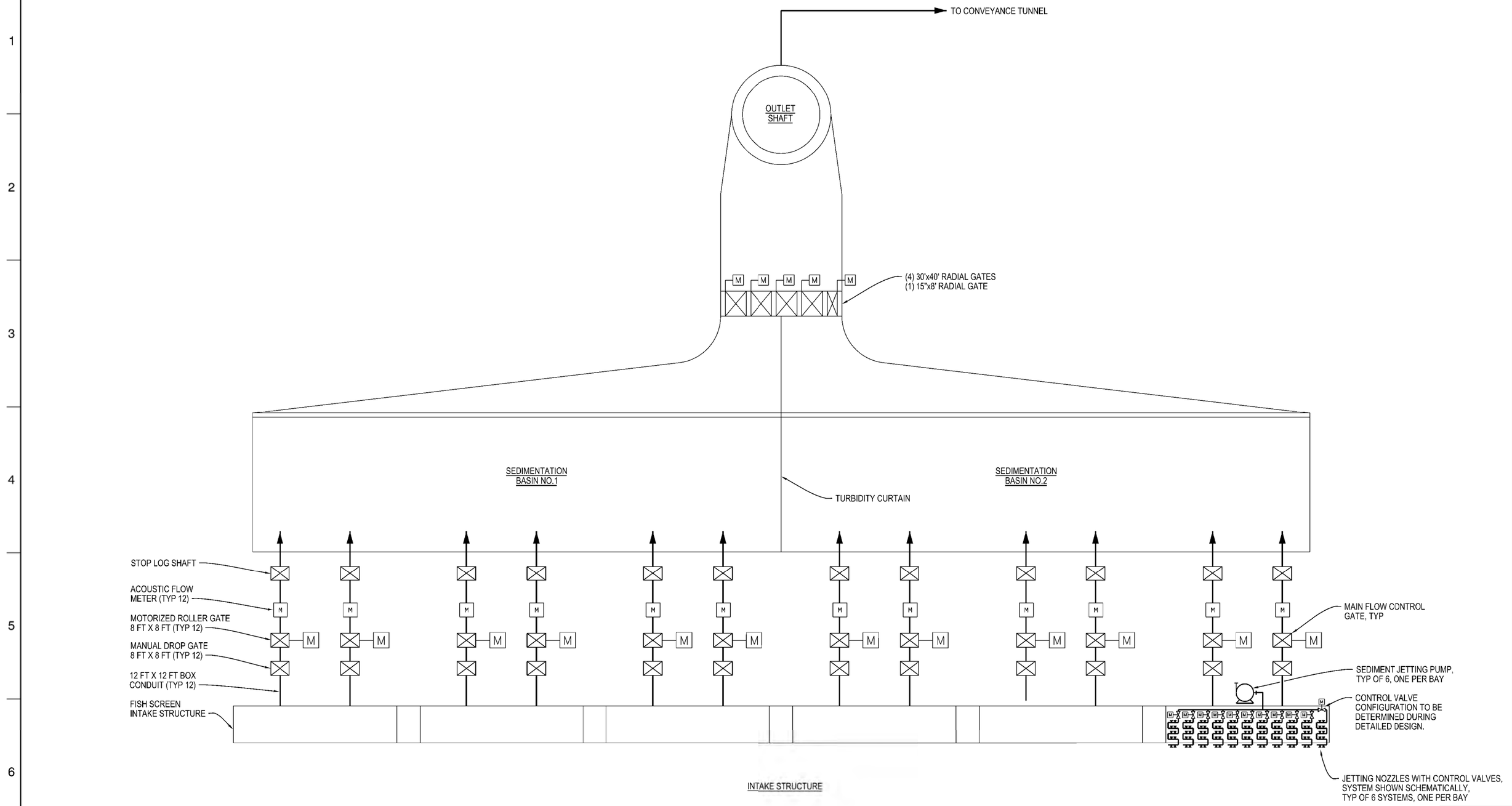
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES TEE SCREENS
ELEVATION, SECTION AND PLAN

PROJECT NO.: W8X97000
SHEET NO.: STX-M-3003IT
REV:
SEQUENCE NO.: X

STX-M-3003IT_W8X97000.dgn

PLOT DATE:2021\11\19 PLOT TIME:4:26:20 PM



INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED
DRAWN
CHECKED
APPROVAL RECOMMENDED
APPROVAL BY P RYAN

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

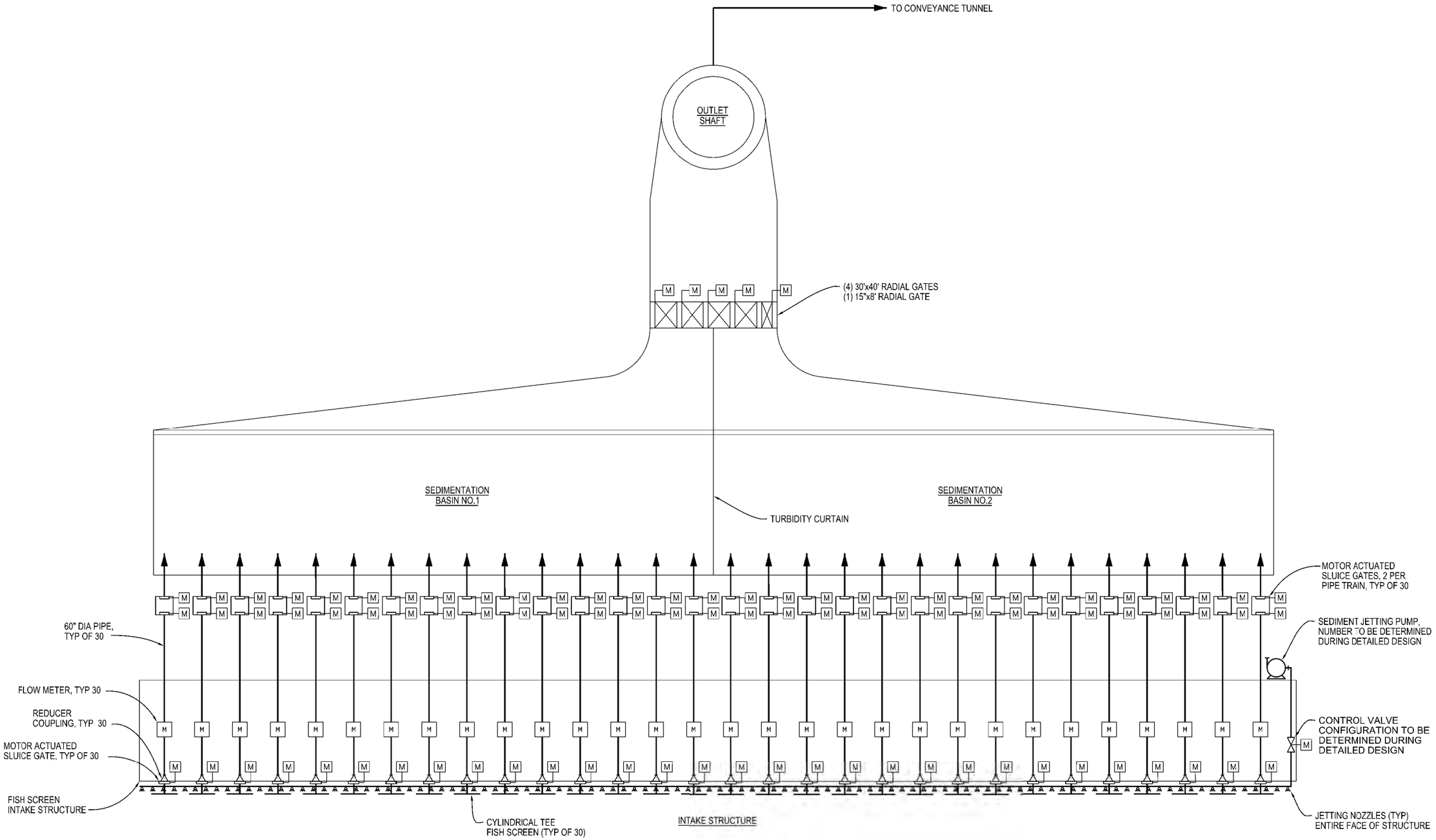
ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES TYPICAL VERT SCREEN PROCESS FLOW DIAGRAM

PROJECT NO. W8X97000
SHEET NO. STX-I-0001IT
REV | SEQUENCE NO.

STX-I-0001IT_W8X97000.dgn

PLOT DATE:2021\11\19 PLOT TIME:4:29:23 PM



INTAKES

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

REV	DATE	DESCRIPTION	SUB.	APPD
	12/23/2021	FINAL DRAFT BASELINE DRAWINGS		

DESIGNED | APPROVAL RECOMMENDED
DRAWN | APPROVAL BY: P RYAN
CHECKED

DELTA CONVEYANCE DESIGN & CONSTRUCTION AUTHORITY

ENGINEERING PROJECT REPORT
DELTA CONVEYANCE PROJECT
SINGLE TUNNEL - ALL ALTERNATIVES

INTAKES TYPICAL TEE SCREEN PROCESS FLOW DIAGRAM

PROJECT NO. W8X97000
SHEET NO. STX-I-0002IT
REV | SEQUENCE NO.

STX-I-0002IT_W8X97000.dgn

PLOT DATE:2021\11\19 PLOT TIME:4:30:51 PM